2025–2026 Bulletin of Information

University of Notre Dame
Graduate School Programs and Policies

UNIVERSITY OF NOTRE DAME | THE GRADUATE SCHOOL

YOUR RESEARCH MATTERS℠

Published by:

The Graduate School
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Notre Dame, IN 46556

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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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Academic Calendar 2025–2026

Fall Semester 2025

August

25: Classes begin

September

2: Last day for course changes

October

18: Mid-term break begins
27: Classes resume
31: Last day for course discontinuance

November

1: Application deadline for admission to the Graduate School for spring semester 2026
3: Dissertation and thesis formatting checks due
20: Spring 2026 registration begins for degree-seeking Graduate School students
25: Last day for master's examinations and doctoral dissertation defenses for January 2026 graduation
26: Thanksgiving holiday begins

December

1: Classes resume;
Last day for presenting completed theses and dissertations to the Graduate School for January 2026 graduation
10: Last class day
11: Reading day
12: Final examinations
13–14: Reading days
15–18: Final examinations
22: All grades submitted through insideND by 3:45 p.m.

January

4: Official graduation date (no ceremony)

Spring Semester 2026

January

12: Classes begin
19: Martin Luther King Jr. Day
20: Last day for course changes

February

1: Last application deadline for admission to the Graduate School for fall semester 2026

March

7: Mid-term break begins
16: Classes resume;
Dissertation and thesis formatting checks due
18: Summer 2026 registration begins for Graduate School students
20: Last day for course discontinuance

April

2: Last day for master's examinations and doctoral dissertation defenses for May 2026 graduation
3: Easter holiday begins
7: Classes resume
13: Last day for presenting completed theses and dissertations to the Graduate School for May 2026 graduation
16: Fall 2026 registration begins for degree-seeking Graduate School students
29: Last class day
30: Reading days begin

May

4–8: Final examinations
11: All grades submitted through insideND by 3:45 p.m.
16: Official graduation date and Graduate School Commencement Ceremony

Summer Session 2026

June

1: Fall 2026 registration begins for new Graduate School students
8: Classes begin*
15: Dissertation and thesis formatting checks due for summer 2026 graduation

July

2: Last day for master's examinations and doctoral dissertation defenses for summer 2026 graduation
13: Last day for presenting completed theses and dissertations to the Graduate School for summer 2025 graduation
17: Last class day
27: All grades submitted through insideND by 3:45 p.m.

August

2: Official graduation date (no ceremony)

* Registration and course add/drop deadlines vary by session (full, first short, or second short session) and course. Refer to https://summersession.nd.edu for details.

Graduate School Directory

The Dean's Office

Michael Hildreth, Ph.D.*
Vice President and Associate Provost; Dean of the Graduate School; Professor of Physics and Astronomy
574-631-8052; mhildreth@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)
- Acts as liaison with members of the University community, including executive administration and leadership, faculty, staff, students, and outside constituents.

Jamila Lee-Johnson, Ph.D.
Assistant Dean for Inclusive Excellence
574-631-2096; jleejohn@nd.edu

- Diversity and inclusion framework
- Strategic diversity initiatives
- Inclusive culture
- Post-baccalaureate programs

Academic Affairs for Graduate Students; Ethics and Leadership Training

John Lubker, Ed.D.*
Associate Dean for Academic Affairs; Executive Committee of the Graduate School
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

Maureen Collins
Program Director, Academic Services
574-631-5926; mcollin5@nd.edu

- 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

Allan Loup, J.D.
Assistant Program Director, Ethics
574-631-7446; aloup@nd.edu

- Ethics program
- Responsible conduct of research
- Professional development
- Ethical leadership training

Laura Patzschke
Senior Academic Services Coordinator
574-631-7544; lpatzsch@nd.edu

- CurateND access requests and metadata maintenance for dissertations and theses
- Doctoral dissertations and master's theses — resources, preliminary reviews, and formal submissions
- ProQuest/UMI liaison
- Spousal ID/Wellness Center requests

Data and Strategy

Eric Heath*
Program Manager for Assessment, Data Analytics and Strategic Initiatives
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- Data collection and interpretation
- Data visualization and analysis
- Strategic planning

Jenny Shi
Data and Systems Analyst
5740-631-9456; jshi7@nd.edu

- Data pipelines and reporting tools

* Indicates a member of the Executive Committee of the Graduate School.

- Data integrity and audits
- Solution integrations, development, and enhancements

Tim Spilde, Ph.D.
Data Strategy Postdoctoral Fellow
574-631-9395; tspilde@nd.edu

- Assists in the design and development of Tableau reports and data visualizations
- Works on project management of various data-related projects, including centralizing data sources
- Creates documentation and training to support end-user engagement with reporting tools

Graduate Enrollment Management

Rachel Williams*
Director, Graduate Enrollment Management
574-631-8421; rwilli56@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

Jenipher Akuku Huisman
Enrollment Program Director
574-631-4694; jmangeni@nd.edu

- Recruiting for Graduate School doctoral and master's programs
- Summer Research Opportunities Program
- Retention strategies

Mellisa Crisan
Admissions Coordinator
574-631-5489; mcrisan@nd.edu

- A-L: Application processing and admission decisions
- A-l: Creation of live student records
- Verification of all applicant data
- Application system updates

Shalon McClatchey
Admissions Coordinator
574-631-4695; smcclatc@nd.edu

- M-Z: Application processing and admission decisions
- 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

Operations and Administration

Belinda Thompson*
Senior Director of Operations and Administration
574-631-7470; thompson.134@nd.edu

- Primary liaison for Development and Stewardship, Facilities, Human Resources, and Public Affairs and Communications
- Supports and oversees Graduate School event planning
- Oversees Graduate School communications strategy and projects

Monica Cundiff
Events Specialist
574-631-3195; mcundiff@nd.edu

- Planning and executing large-scale/signature Graduate School events
- Support for internal events

Kelly Donndelinger*
Finance Associate Director
574-631-8422; kdonndel@nd.edu

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

Shari Hill Sweet
Systems Specialist
574-631-7545; shill2@nd.edu

- Editor, annual policy updates and website
- Graduate School communications
- Graduate School systems and access specialist

Denise McAllister
Financial Analyst
574-631-8703; dmcalli2@nd.edu

- Financial awards—external fellowships, health insurance subsidies, tuition scholarships, NSF GRFPs
- Graduate stipends and hourly jobs; student employment policy compliance
- Graduate program stipend budgets and ad hoc reporting
- Graduate School professional development award and emergency fund management
- Financial Toolkit transactions

Professional Development and Postdoctoral Scholars

Mary Ann McDowell, Ph.D.*
Associate Dean for Professional Development
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- Oversight of graduate student grants and fellowships
- Strategic leadership for graduate student professional development
- Support initiatives for graduate student quality of life and well-being
- Policy guidance for mentorship training

Diana Dickson
Program Coordinator, Office for Postdoctoral Affairs
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 Affairs and academic hiring departments

Jordan Rodgers, Ph.D.
Program Coordinator, Office for Postdoctoral Affairs
574-631-2087; jrodger1@nd.edu

- Postdoctoral scholars
- Research associates
- Visiting scholars
- Research visitors
- Senior research associates

Michael Skalski, Ph.D.
Associate Program Director, Office of Grants and Fellowships
574-631-1713; mskalski@nd.edu

- Manages the Office of Grants and Fellowships
- Guide students in identifying and obtaining successful extramural funding
- Proposal writing and development
- Data collection and management

Veronica Vos
Advisor, Office of Grants and Fellowships
574-631-2443; vvos@nd.edu

- Advise students for the Office of Grants and Fellowships
- Guide students in identifying and applying to grant funding
- Educate individuals and departments on the merits of applying for grant funding
- Data collection and management

The University

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University Policies

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 or as follows:

Assistant Vice President
Office of Institutional Equity
100 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.

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.

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. A printed copy of this brochure is available by sending an email request to ndsp@nd.edu or by writing to:

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

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.

The Graduate School

The Graduate School: Your Research Matters. You Matter.

Mission Statement: The Graduate School fosters an inclusive environment for prospective and current graduate students and postdoctoral scholars, promoting their professional development and holistic well-being. In partnership with the colleges and schools, we support innovation and excellence in graduate education and postdoctoral training to advance research and scholarship.

Vision statement: The Graduate School collaborates across the University to provide exceptional student and postdoctoral support, offering distinctive programming that reflects our unique Catholic mission. As an innovator in graduate education, we enable Notre Dame to recruit and retain the most talented emerging scholars and empower them to reach their full potential and become a force for good in the world.

Be a Force for Good

The Graduate School's conviction that *Your Research Matters* and that *You Matter* affirms the vibrant individuality of each graduate student. You will make unique findings and approach challenges in your own way. It also aligns our students' work with Notre Dame's greater mission to contribute positively to our world, whether by trailblazing innovations, pursuing discoveries, or illuminating truth and beauty in new and distinctive ways.

Notre Dame's founder, Rev. Edward F. Sorin, C.S.C., famously wrote that Notre Dame would be a powerful force for good in the world. We integrate our students into a community of award-winning scholars, ethical innovators, and current and future leaders to help bolster that vision. As a result, our graduate students and alumni thrive and contribute research that matters in impactful and unique ways, every single day.

The Graduate School oversees graduate programs in the College of Arts and Letters, College of Engineering, College of Science, and Keough School of Global Affairs, and doctoral programs in the Mendoza College of Business, totaling more than 30 departments and programs that offer master's or doctoral degrees. There are more than 2,600 graduate students, from all fifty states and more than 90 nations, and more than 200 postdoctoral fellows at Notre Dame. The Graduate School is led by the dean of the Graduate School, who is also a member of the faculty and a vice president and associate provost. A team of associate deans and a dedicated staff work in partnership with the colleges and departments to prepare students to become future academic or professional leaders, to enter the arena of public discourse on pressing contemporary issues, to contribute to a life-affirming understanding of our world, and to embody the call of our founder Father Sorin to be a force for good.

Graduate Student Government

Through a council of elected officers, appointed committee chairs and representatives from the departments of its constituent colleges, the Graduate Student Government (GSG) 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 GSG 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, graduate instructors, and graduate faculty mentors, in addition to providing various social, cultural, and intellectual activities. The GSG is the graduate students' official liaison with the University administration and the Office of Student Activities.

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

Email: ndgradsg@nd.edu
Telephone: 574-631-6963
Web: http://gsg.nd.edu

Graduate Degrees Granted

The Graduate School awards master's and doctoral degrees in the College of Arts and Letters, College of Engineering, College of Science, and the Keough School of Global Affairs. The Graduate School awards only doctoral degrees in the Mendoza College of Business.

Master of arts in the following fields:
- Anthropology
- Classics
- Design
- Early Christian studies
- Economics
- English
- French and Francophone studies
- History
- History and philosophy of science
- Italian studies
- Philosophy
- Political science
- Psychology, research and experimental
- Sociology
- Spanish
- Studio art
- Theology

Master of divinity
Master of engineering (only with J.D.)
Master of fine arts in the following fields:
- Design
- English
- 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 business
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 in the following fields:
- Conducting
- Organ

Doctor of philosophy in the following fields:
- Aerospace and mechanical engineering
- Aerospace and mechanical engineering: Materials science and engineering
- Analytics
- Anthropology
- Applied and computational mathematics and statistics
- Biochemistry
- Biochemistry: Materials science and engineering
- Bioengineering
- Bioengineering: Materials science and engineering
- Biological sciences
- Biophysics
- Biophysics: Applied and computational mathematics and science
- Biophysics: Biological sciences
- Biophysics: Chemistry and biochemistry
- Biophysics: Physics
- Chemical engineering
- Chemical engineering: Materials science and engineering
- Chemistry
- Chemistry: Materials science and engineering
- Civil and environmental engineering and earth sciences
- Civil and environmental engineering and earth sciences: Materials science and engineering
- Computer science and engineering
- Economics
- Electrical engineering
- Electrical engineering: Materials science and engineering
- English
- History
- History and philosophy of science
- Integrated biomedical sciences
- Integrated biomedical sciences: Applied and computational mathematics and statistics
- Integrated biomedical sciences: Biological sciences
- Integrated biomedical sciences: Chemistry and biochemistry
- Integrated biomedical sciences: Mathematics
- Integrated biomedical sciences: Physics
- International peace studies
- Italian
- Management
- Mathematics
- Mathematics and philosophy
- Medieval 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
Philosophy and mathematics
Physics
Physics: Materials science and engineering
Political science
Psychology, research and experimental
Sociology
Spanish
Sustainable development
Theology

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 engineering (through the Department of Civil and Environmental Engineering and Earth Sciences)
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:

Advanced quantitative social science
Byzantine studies
Byzantine studies: Advanced
Gender studies
High performance scientific computing
History and philosophy of science, technology and medicine
Irish studies
Medieval studies
Medieval studies: Advanced
Peace studies
Screen cultures
Visual and material culture

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 English (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
Scientific computing
Solid mechanics
Thermal and energy sciences
Tissue engineering

Analytics

AI business applications
Digital experimentation methods
E-commerce
Ethics and privacy
Health
Sports and gaming

Anthropology

Anthropological archaeology
Biological anthropology
Linguistic anthropology
Social-cultural anthropology

Applied and Computational Mathematics and Statistics

Actuarial science
Applied mathematics
Applied partial differential equations
Applied statistics
Astrostatistics
Bayesian statistics
Bayesian asymptotics
Nonparametrics statistics
Big data analysis
Bioinformatics
Biostatistics
Computational and mathematical biology
Computational finance
Computational mathematics
Computational neuroscience
Computational physics
Data mining
Data science
Dynamical systems
Environmental statistics
Geometry and statistics
Geospatial informatics

- Machine learning
- Mathematical modeling
- Manifold learning
- Multiscale modeling
- Network analysis
- Nonlinear dynamics
- Nonlinear partial differential equations
- Numerical algebraic geometry
- Numerical analysis
- Numerical solution of partial differential equations
- Scientific and parallel computing
- Predictive analytics
- Probabilistic graphical models
- Spatio-temporal statistics
- Statistical learning
- Statistical bioinformatics
- Statistics
- Stochastic processes
- Topological data analysis
- Uncertainty quantification

*Art, Art History, and Design**

- Studio art+
  - Ceramics
  - Painting
  - Photography
  - Sculpture
- Design+
  - Graphic design
  - Industrial design

Bioengineering

- Biomaterials (also see Materials Science and Engineering)
- Cancer
- Cellular engineering
- Diagnostic imaging and imaging probes
- Diagnostic devices/Lab on a chip
- Immunotherapies
- Mechanobiology
- Organ on a chip
- Orthopaedics
- Tissue engineering/Regenerative medicine

Biological Sciences

- Anatomy and physiology
- Cancer biology
- Cellular and molecular biology
- Computational biology
- Development and regeneration
- Ecology and environmental biology
- Entomology
- Epidemiology and population biology
- Evolutionary biology
- Genetics and genomics
- Infectious and vector-borne diseases
- 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
- 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

- Advanced computational platforms/methods
- Air pollution
- Air-sea interaction
- Biogeochemical cycling of the elements
- CO2 sequestration
- Coastal engineering
- Coastal inundation
- Computational solid and fluid mechanics
- Construction engineering and management
- Cyber-enabled design and virtual organizations
- Dynamics of structures
- Earthquake engineering
- Geochemical signatures associated with meteorite impact structures
- Global climate change
- Groundwater contamination and remediation
- Indoor air quality
- Internal and inertial waves
- Kinetic (deployable) shelters and bridges
- Lake hydrology and associated biogeochemistry
- Large-scale testing of structural components and subassemblies
- Multiscale modeling of structures and materials
- Natural and engineered nanoparticles
- Natural hazard risk assessment, mitigation, and reliability
- Prospecting and evaluation of lunar resources

- Small-scale turbulence and mixing processes
- Steel and concrete buildings and bridges (including tall buildings and long-span bridges)
- Structural design, control and health monitoring
- Sustainable infrastructure for the developing world (Engineering for International Development)
- The nuclear fuel cycle and nuclear forensics
- Urban sustainability
- Water resources
- Wave-current interaction
- Wind engineering and wind-structure interaction
- Wind wave dynamics

Classics*

- Classics (Greek and Latin)
- Early Christian studies

Computer Science and Engineering

- Artificial intelligence and machine learning
- Algorithms and theory
- Biometrics
- Computer architecture
- Computer graphics
- Computer systems and networks
- Computer vision
- Data science
- Digital humanities
- Human-computer interaction
- Natural language processing
- Robotics
- Security, privacy, and cryptography
- Software engineering
- Visualization
- Web and social computing
- Wireless, mobile, and embedded systems

Economics

- Development economics
- Health economics
- International economics
- Labor economics
- Macroeconomics
- Public economics

Education*

- Educational leadership
- Teaching

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 information
- Biophotonics and biomedical devices
- Intelligent transportation systems
- Networked control systems
- Sensing, detection and 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
- Postcolonial/global Anglophone literature
- Prose fiction
- Renaissance
- Restoration and 18th century
- Romantic and Victorian

French and Francophone Studies*

- French literature and culture: Middle Ages, Renaissance, 17th-century classical, 18th-century Enlightenment, 19th-century, 20th-century

Global Affairs*

- Governance and policy
- International peace studies
- Sustainable development

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
- Continental philosophy of science
- History of astronomy and physics
- History and philosophy of biology
- History and philosophy of economics
- History of mathematics
- History of medicine
- History of the philosophy of science
- History of psychology
- Intellectual history of science 1500 to 1950
- Medieval and Renaissance natural philosophy and medicine
- Philosophy of contemporary physics
- Science and literature
- Social history of medicine and technology

Integrated Biomedical Sciences

- Biophysics and structural biology
- Cancer biology
- Cellular and molecular biology
- Chemical biology and molecular pharmacology
- Computational biology and bioinformatics
- Genomics and proteomics

Immunology and infectious disease
Neuroscience

Italian

Medieval literature
Renaissance studies
18th- and 19th-century literature and culture
Modern literature and culture
Cartography and literature
Italian cinema

Management

Organizational behavior
Strategy and entrepreneurship

Materials Science and Engineering

Actinides
Biomaterials
Polymers and soft materials
Semiconductors and quantum matter

Mathematics

Algebra/algebraic geometry
Analysis and partial differential equations
Differential geometry
Discrete mathematics
Logic
Mathematical physics
Mathematics and philosophy
Topology

Medieval Studies

Art history
History
Language and literatures
Manuscript studies
Music
Philosophy
Theology

Musical Arts

See Sacred Music

Peace Studies

International peace studies
Peace studies and anthropology
Peace studies and history
Peace studies and political science
Peace studies and psychology - clinical or developmental
Peace studies and sociology
Peace studies and theology

Philosophy

Ancient philosophy
Contemporary European philosophy
Epistemology
Ethics
Logic
Medieval philosophy
Metaphysics
Modern philosophy
Philosophy and mathematics
Philosophy of language
Philosophy of mind
Philosophy of religion
Philosophy of science
Political philosophy

Physics

Astrophysics
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, Research and Experimental

Cognition, brain, and behavior
Clinical psychology
Developmental psychology
Quantitative psychology

Sacred Music

Master of sacred music—choral conducting concentration, organ concentration, voice concentration
Doctor of musical arts—choral conducting concentration, organ concentration

Sociology

Cultural sociology
Education
Gender and family
Global sociology and international development
Race and ethnicity
Religion
Social movements/Political sociology
Stratification and inequality

Spanish

Latin American and Iberian cultural studies
Film studies
Literary theory
Literature

Sustainable Development

Theology

Biblical studies*
Christianity and Judaism in antiquity—Hebrew Bible and early Judaism, New Testament and early church
Early Christian studies*
History of Christianity—early church, medieval studies, Reformation studies, modern studies
Liturgical studies
Moral theology/Christian ethics
Systematic theology
Professional studies* (master of divinity program)
Theological studies*
Theology and the history and philosophy of science program
Theology and the peace studies program
World religions and world church

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 GPA scale) in their undergraduate major, 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 adviser (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 a master's program in the 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 advisers 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. If applicable, arrange for the submission of official Graduate Record Examination (GRE) General Test scores
9. If applicable, 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 varies from October 1 through November 1. 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), administered by Educational Testing Service (ETS), 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.

The Test of English as a Foreign Language (TOEFL) and the International English Language Testing System (IELTS), are offered several times each year at sites in the United States and abroad. The Graduate School also accepts certification through the Duolingo English Test. Students whose native language or language of college instruction is English, must submit TOEFL, IELTS, or Duolingo scores as part of their application to demonstrate a sufficient command of English to meet the requirements of their field.

If not available locally, the annual schedules and other information about the TOEFL can be obtained online at http://www.toefl.org. The TOEFL is administered by Educational Testing Service (ETS)

Current information on the IELTS and Duolingo tests can be obtained online at http://ielts.org and http://englishtest.duolingo.com, respectively.

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 resumé through the online application system
4. Submit unofficial transcripts from each post-secondary institution through the online application
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 their 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 graduate enrollment management. 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 degree-seeking admitted student who fails to register and complete the ND Roll Call process for one semester or more must seek readmission 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-seeking student may be employed, on or off campus, without the express permission of their 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 registering 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. 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.

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

Audited courses 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 degree-seeking graduate 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 GPA. 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 given 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 their discretion through the first six class 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 adviser, 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. Students must be registered for 12 or more credits in order to change a course from credit to audit after the deadline. 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.

Grade	Quality Points/Other
A	4.000
A-	3.667
B+	3.333
B	3.000
B-	2.667
C+	2.333
C	2.000
C-	1.667
D	1.000
F	0.000
I	0.000 (until Incomplete is removed)
NR	Not reported
S	Satisfactory
U	Unsatisfactory
V	Auditor
W	Discontinued with permission

Grades of C- and D are awarded in the Graduate School and are used to calculate both semester and cumulative GPA; 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 GPA 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. 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 last date for course discontinuance. Approval of the grade of W is granted by the associate dean for academic affairs in the Graduate School or other authorized officer.

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 Center for Student Support and Care 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 GPA The GPA 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 GPA

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 (GPA).

An adequate GPA 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 GPA

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 their 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 their 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 their 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 or their designee must approve all leaves of absence. If, for some urgent reason, a student must 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.

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.

Crisis Separation from Academic Duties

Students enrolled in the Graduate School who wish to temporarily interrupt their programs for reasons of crisis must make an official request to the Graduate School. Students are eligible under this policy if they, their spouse, or their dependent(s) have a "crisis." For purposes of this policy, "crisis" is defined as a situation that 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. Eligible crises are as follows: natural disaster, legal, spouse or dependent medical, eldercare, and death of a first order family member. Documentation by a third party that the student, spouse, or dependent(s) is in crisis as defined in this policy must be submitted to the Graduate School as soon as the need arises (for emergency requests). The duration of the separation will be based on the nature of the crisis, up to a maximum of six weeks, and will be determined jointly by the adviser/department and the student. Final ap-

proval will be granted by the Graduate School's associate dean for academic affairs. Students may utilize this crisis 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.

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 111.

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 their 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 adviser, the area coordinator (or faculty member responsible for the area in which the student is working), or the director of graduate studies.

If an adviser 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 adviser'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 adviser happens to be the director of graduate studies, this letter will be 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 their 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 their 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 their 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 and have the dissertation topic approved 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 their 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 adviser, director of graduate studies, or program faculty. A semester GPA 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/Adviser

In some cases, a student may not be able to secure a laboratory and/or adviser. 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 adviser, 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 their program of study. For more details on these policies, please consult *du Lac: A Guide to Student Life* at http://dulac.nd.edu.

Students will be notified in writing, by the director of graduate studies, 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 their 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 their 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 their 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 110.

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 adviser from the time of enrollment. This may initially be the director of graduate studies, but an individual adviser or thesis director will be chosen as soon as practicable, following the program's policies.

Advisers 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 their 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 recommended, it must be completed by the end of the following semester. The Graduate School allows only one retake of the master's examination.

Some programs have an equivalent requirement in lieu of the master's examination. Students are advised to be cognizant of their respective program requirements with regard to the master's examination or its substitute.

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 GPA 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 their 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.

Thesis Requirement

The thesis is the distinctive requirement of the research master's degree. With the approval of their adviser, 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://graduateschool.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 Graduate School's dissertation and thesis intake site. 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 Thesis

A student who wishes to complete a non-traditional formal thesis (for example, a multimedia project instead of a traditional written thesis in PDF form) should discuss the alternate format with their 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 their 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 they intend 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 will 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 their 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 Graduate Training > Ethics portion of the Graduate School website at https://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.

Advisers and Dissertation Directors

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

Advisers 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 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. An electronic reporting form is sent to all the members of the committee to record their vote. Once all the members have recorded their vote the form is sent electronically to the Graduate School.

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 GPA of 3.0 or better, complete any program language requirements, 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 their 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 defense, 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. An electronic reporting form is sent to all the members of the committee to record their vote. Once all the members have recorded their vote the form is sent electronically to the Graduate School.

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 their 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://graduateschool.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 formal dissertation and thesis intake site. 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 DMA 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 their expertise at the highest level. The student should have the capacity to think through ethical issues raised by their 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 DMA are required to have an appropriate master's degree, either the M.A., M.M., or the MSM The holding of this degree is assumed in the description that follows. Note that the DMA 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 DMA

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 DMA is full-time status for six consecutive semesters, with a minimum of four.

DMA 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 DMA students to complete the Graduate School's 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 DMA 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 DMA 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 DMA 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 DMA dissertation proposal approved.

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

The DMA Dissertation

In continuing consultation with the dissertation director, the candidate explores research and performance areas in their 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 DMA Dissertation

In defending the dissertation, the DMA 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 DMA Dissertation

To receive the degree at the next graduation, the DMA candidate who has successfully defended their 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://graduateschool.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 2025–2026. 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 2025–2026 is $66,934 plus fees. Tuition for the part-time student is $3,719 per semester credit hour plus fees. Nonresident 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 $59,000, charged at $11,800 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: $100***

** 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

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 their 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 their 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 withdrawal 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.

Residential Life

Telephone: 574-631-5878
Web: https://residentiallife.nd.edu/graduate/

Accommodations for graduate students are available adjacent to campus in the Fischer Graduate Residences, managed by Bradley Company on behalf of the University. For further information, contact 574-631-8607 or visit the website at https://www.fog.bradleyco.com.

The Landings at Notre Dame is a University-related complex located within walking distance to campus and the Notre Dame Family Resource Center. This complex leases one, two, and three bedroom open-layout apartments with an in-unit washer and dryer, fully equipped kitchen, on-site parking, and convenient shuttle service to campus.

Designed for post-baccalaureate students who are married or parenting, The Landings accepts applications from newly accepted and enrolled graduate students and post-doctoral researchers after May 1 if vacant apartments are available.

The Landings complex is managed by Corvias Property Management. For more information, visit https://thelandingsatNotreDame.com or call 574-538-2710.

Health Insurance

Telephone: 574-631-6114
E-mail: insurancequestions@nd.edu
Web: 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/.

The cost of the student premium for the 2025–2026 academic year (effective August 15, 2025, to August 14, 2026) is $2,804, charged as $1,736 per semester. The insurer for the student health insurance policy is United-Healthcare.

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 2025–2026 is $2,804 for degree-seeking students on full stipend support for both the fall 2025 and spring 2026 semesters. Students will receive a $1,736 subsidy if they are on full stipend support for only one semester. Eligible students who will graduate in January and who enroll in the fall-only plan (cost $1,068) will receive a $1,068 subsidy if on a full stipend for the fall term. Eligible students who enroll in the University-sponsored student health insurance between August 15, 2025 and August 14, 2026 and are not charged the full $2,804 will receive a subsidy prorated based on the premium amount. Eligible students who waive the University-sponsored plan by September 15, 2025 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 contact 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.

Dependents

Students in a Graduate School degree program who are full-time and fully-funded receive a subsidy that pays 100% of the annual health insurance premium, and beginning in fall 2024, they will also receive a subsidy that covers 100% of the cost of the health insurance premium for their legal dependents.

Open enrollment periods are as follows:

- July 15–August 31 (fall)
- January 1–February 15 (spring)
- May 15–June 15 (summer)

Outside of open enrollment, dependents may only be added for specific qualifying events.

For more information on qualifying events and dependent eligibility and enrollment, refer to the University Health Services website at http://uhs.nd.edu.

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 their 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 adviser or director of graduate studies. Generally, any exceptions will not exceed 2 hours per week. Any situation where weekly hours are greater than 20 (not to exceed 24) will require additional approval from the Graduate School, which the Graduate School will obtain internally.

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 written approval of the student's adviser or director of graduate studies. Generally, for these students as well, the total assistantship, if any, and employment obligations may not exceed 20 hours per week. Any situation where weekly hours are greater than 20 (not to exceed 24) will require additional approval from the Graduate School, which the Graduate School will obtain internally.

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 adviser or director of graduate studies. Generally, any exceptions will not exceed 2 hours per week. Any situation where weekly hours are greater than 20 (not to exceed 24) will require additional approval from the Graduate School, which the Graduate School will obtain internally. 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.

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 Our Services > Accounts Payable: http://controller.nd.edu

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

- GSG Conference Presentation Grant Program
- Zahm Research Travel Fund
- Joseph F. Downes Memorial Fund
- Notebaert Professional Development Fund

Financial Aid

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 128 McKenna Hall, administers federal and private financial aid programs to assist in the financing of your Notre Dame education.

Applying for Federal Student Aid

In order to be eligible for federal student assistance, a student must be a U.S. citizen, permanent resident, or eligible noncitizen. In general, students must be classified as degree-seeking to participate in the federal aid programs and be enrolled at least half-time. The Free Application for Federal Student Aid (FAFSA) is the annual application required for consideration for all federal financial aid programs. Complete the application online, listing Notre Dame (Federal School Code 001840) in the appropriate section. Priority processing consideration will be given for those applicants submitting the FAFSA by February 28. Please note, the FAFSA process changed beginning with the 2024/2025 academic year. The student and spouse are now "contributors" to the FAFSA. Contributors are required to sign and consent to the IRS retrieval of tax information. For information on this annual application process, please review the Financial Aid Application Process for graduate students on the Office of Financial Aid website at https://financialaid.nd.edu.

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.

The amount a student may borrow from the Direct Loan Program may be limited by other financial assistance received by the student. Financial assistance includes, but is not limited to, the following: fellowships, assistantships, University scholarships, tuition remissions, all types of grants, residence hall appointments, need-based employment, and any loan received under the auspices of the Higher Education Act as amended. Should a student's eligibility be impacted at any time during the loan period, the Direct Loan will be subject to adjustment. All eligibility changes will be reported to the student's lender.

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.

Veterans Educational Benefits

Contact: Jennie Bracket, Primary VA School Certifying Official
Telephone: 574-631-5598
E-mail: jbracket@nd.edu
Web: https://registrar.nd.edu/enrollment-registration/veteran-affairs/

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 Veteran Affairs page of the Office of the Registrar's website.

Department of Veteran Affairs Pending Payment Policy

The University will not take any of the four following actions toward any student using U.S. Department of Veteran Affairs (VA) Post 9/11 G.I.Bill® (Ch. 33) or Veteran Readiness and Education (Ch. 31) benefits, while their payment from the VA is pending:

- Prevent their enrollment;
- Assess a late penalty fee;
- Require they secure alternative or additional funding;
- Deny their access to any resources available to other students who have satisfied their tuition and fee bills.

However, to qualify for this provision, students using Ch. 33 or Ch. 31 benefits are required to:

- Produce the VA's Certificate of Eligibility by the first day of class;
- Confirm their use of VA benefits via a Benefit Election eForm.

The College of Arts and Letters

Anthropology

Chair:
Lee Gettler

Director of Graduate Studies:
Meredith Chesson

Telephone: 574-631-3775
Fax: 574-631-5760
Location: 248 Corbett Family Hall
E-mail: gradanth@nd.edu
Web: http://anthropology.nd.edu

The Master of Arts

Degree Requirements	
GPA Credits	36 credits
Total Credits	36 credits
Other	Admission to master's candidacy

The graduate program in anthropology does not 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

Degree Requirements	
Courses	36 credits
Total	60 credits
Other	Admission to doctoral candidacy
	Candidacy examinations
	Fieldwork
	Doctoral dissertation

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 details regarding course, field work, and exam requirements, consult the program's Graduate Student Guide.

Art, Art History, and Design

Chair:
James Collins

Director of Graduate Studies:
Jason Lahr

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

The Department of Art, Art History, and Design typically admits students to the master of fine arts (MFA) degree in studio art or design. Students who are not accepted to degree candidacy in the MFA program during the candidacy review at the end of the second year, or those who choose to leave the MFA program, may instead earn a master of arts (M.A.) degree. Students are not directly admitted to a M.A. degree.

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

The Master of Fine Arts: Studio Art or Design

Degree Requirements	
GPA Credits	30 credits
Total Credits	60 credits
Other	Admission to master's candidacy
	Written thesis
	Exhibition of creative work

The MFA offers concentrations in studio art or design, and is open to 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 MFA 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 MFA 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 MFA 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: Studio Art or Design

Degree Requirements	
GPA Credits	30 credits
Total Credits	40 credits
Other	Admission to master's candidacy

The non-research master of arts degree (M.A.) program in studio art or design is granted to MFA students who are either not admitted to MFA candidacy or choose to leave the MFA 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:
Aldo Tagliabue

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Email: classics@nd.edu
Web: http://classics.nd.edu/

The Master of Arts

Degree Requirements	
GPA Credits	30 credits
Total Credits	38 credits
Other	Admission to master's candidacy
	Ancient language exams
	Modern language requirement (German, French, or Italian)
	Written thesis or subfield exam

The Notre Dame M.A. program in classics, founded in 2011, provides exceptional opportunities to enhance or gain proficiency in ancient Latin and Greek, develop innovative research agendas, and prepare strong applications for leading Ph.D. programs in classics, archaeology, ancient history, and related fields.

Students can choose from several areas of emphasis, such as languages, literature, history, and material culture of the Greco-Roman world.

Students must complete 38 credits over two years by taking a combination of core courses and electives. The core courses are two survey language courses in language 1 (Greek or Latin),

two advanced language courses in language 2 (Greek or Latin), and one Greek and/or Roman History Seminar (CLAS 63010/63020 or equivalent). Seven electives are chosen from the following areas: intermediate Greek or Latin, advanced Latin or Greek language and literature, Greek or Roman history, archaeology and material culture, philosophy, or any other courses approved by the director of graduate studies.

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 is based on readings from one survey course in one language and a sight translation in the other.

Since German, French and Italian are of major importance for research, students must demonstrate reading proficiency in one of these three languages by taking a language exam offered by the relevant department or passing a French, German, or Italian reading course.

Thesis and Subfield Exam

Students have the option of writing a 6-credit final master's thesis. Students intending to go on to a Ph.D. program are advised to exercise this option.

Students choosing not to write a thesis are required to take a subfield oral exam at the beginning of the fourth semester. Unlike the Greek and Latin examinations, the subfield exam will focus on broad topics about classical history, literature, and culture.

Early Christian Studies

Chairs:
Luca Grillo (Classics)
Khaled Anatolios (Theology)

Director of Graduate Studies:
Blake Leyerle

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The Master of Arts

Degree Requirements	
GPA Credits	42 credits
Total Credits	42 credits
Other	Admission to master's candidacy
	Foreign language requirement
	Preparation of reading list
	Candidacy examinations and/or a written thesis

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 advisers. 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.

Economics

Chair:
Eric Sims

Director of Graduate Studies:
Ethan Lieber

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Web: https://economics.nd.edu/graduate-program

The Master of Arts

Degree Requirements	
Courses	27 credits
Total	30 credits
Other	Admission to master's candidacy
	Comprehensive examinations

The economics program does not administer a stand-alone master of arts (M.A.) program, but allows students to apply for an M.A. should they choose to terminate their study in the Ph.D. program. The M.A. degree is awarded to those who successfully complete the core courses, pass the comprehensive exams at the M.A. level or better, and meet University requirements for the M.A.

The Doctor of Philosophy

Degree Requirements	
Courses	45 credits
Total	63 credits
Other	Admission to doctoral candidacy
	Comprehensive examinations
	Candidacy examinations
	Doctoral dissertation

Students in the doctoral program in economics are expected to complete a minimum of 45 credit hours of approved coursework at the graduate level to obtain the Ph.D.

There is no foreign language requirement for graduate students in economics.

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 coursework, and begin a research paper which is completed in the third year. From the third semester on (fall semester of the second year), the student will be required to participate in a research seminar in their chosen fields. Participation means presenting updates of the student's own research and critically analyzing that of others. During the fourth year, students will defend their oral candidacy exam, which contains at least one paper that will become a chapter of their dissertation.

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

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

Examinations

Shortly after completing the core, students take comprehensive written exams in microeconomic and macroeconomic theory and econometrics 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 need to attain a Ph.D. pass in two out of the three exams with an M.A. pass in the third exam. Students who do not pass an exam have one opportunity for a retake later in the summer following the first year, typically about a month after the first attempt. Failure to pass two out of the three 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 should be taken no later than one calendar year prior to the defense of the dissertation.

Education

Program Directors:
Kevin Baxter (MAEL)
Kati Macaluso (M.Ed.)

Directors of Graduate Admissions:
Rachel Frey (MAEL)
Michael Comuniello (M.Ed.)

Director of Graduate Studies:
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All graduate education programs are offered through the University of Notre Dame's Alliance for Catholic Education in the Institute for Educational Initiatives.

The Master of Arts in Educational Leadership

Degree Requirements	
GPA Credits	43 credits
Total Credits	44 credits
Other	Administrative internship
	Admission to master's candidacy
	School Leaders Licensure Assessment

The master of arts in educational leadership (MAEL) 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. Upon successful completion of the program, which includes the Praxis Educational Leadership exam, candidates on the licensure track will be eligible for a Building Level Administrator license (P–12) in Indiana.

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.

MAEL 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 summer, where 10 credits are taken during the first and second summer sessions, and 3 credits are taken during the final summer session. For specific details regarding course requirements, consult the program handbook.

During the academic years between the first two summer sessions, each candidate returns to the K–12 school at which he or she has been accepted as a leadership intern and serves as a full-time teacher-administrator during the regular school year. In addition to their duties with the school, the candidate participates in distance learning courses directed at further development of integrated leadership and applied practice encompassing instructional leadership, executive management, and school culture development. Throughout the two school years, faculty, executive coaches, and program directors provide online support and occasional site visits.

The Master of Education

Degree Requirements	
GPA Credits	37.5 credits 42.5 credits (elementary focus)
Total Credits	37.5 credits 42.5 credits (elementary focus)
Other	Admission to master's candidacy
	Supervised teaching
	Teaching portfolio

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 who have not previously completed an educator preparation program work toward an Indiana Initial Practitioner license in one of the following developmental levels: elementary (K–6), middle school (5–9), or secondary (5–12). The content areas within the middle school and secondary levels include English language arts, social studies, science, and mathematics. 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 37.5 credit hours of letter-graded coursework (42.5 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

ACE Ascent

ACE Ascent forms elementary mathematics specialists for Catholic schools through 18 graduate credit hours of research-based coursework and administrator academies designed to focus on collective leadership between the mathematics specialist and school leaders. Field experiences are embedded within course assignments. All courses are offered virtually during a two-year program of study. Content is aligned to the Indiana Elementary Mathematics Specialist Standards.

This program supports the content required for the Elementary Math Specialist licensure exam (K–6), an addition to an Indiana teaching license.

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.

For those candidates on the licensure track, successful completion of the program provides the opportunity for a Teachers of English Learners addition (P–12) to an Indiana teaching license.

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.

With a hybrid on-campus/online module structure, the program offers an 18-credit hour teacher-leader formation program with deep expertise in educating and advocating for struggling learners and those with disabilities. Participants must be an educator in a Catholic school to be considered for admission for the formation program. All educators—including those from public, charter, and non-Catholic private schools—are welcome to participate in the online professional development modules.

For those candidates on the licensure track, successful completion of the program provides the opportunity for an Exceptional Needs: Mild Intervention addition (P–12) to an Indiana teaching license.

English

Chair:
Joyelle McSweeney

Directors of Graduate Studies:
Ian Newman (M.A. and Ph.D.)
Johannes Göransson (MFA)

English - Ph.D.
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Web: http://english.nd.edu/creative-writing

The Master of Arts

Degree Requirements	
GPA Credits	30–33 credits
Total Credits	33 credits (non-research) 36 credits (research)
Other	Admission to master's candidacy
	Foreign language requirement (research track only)
	Written examination or thesis

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 Arts: English and Law Dual Degree Program

Degree Requirements	
GPA Credits	21 credits of English 9 credits of Law
Total Credits	30 credits (non-research) 36 credits (research)
Other	Admission to master's candidacy

	Written thesis (research)

This is a dual degree program open only to students already admitted to the Notre Dame Law School who also wish to obtain a master of arts degree in English. A student takes 21 hours of English courses and 9 hours of law courses. Normally, students pursue the non-research degree; those wishing to complete the research degree need to complete an additional six hours of thesis research. Current or matriculated NDLS students apply directly to the English Department.

The Master of Fine Arts

Degree Requirements	
GPA Credits	24 credits
Total Credits	36 credits
Other	Admission to master's candidacy
	Master's thesis

Offering concentrations in poetry and prose, the MFA creative writing program in English 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 adviser 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

Degree Requirements	
GPA Credits	42 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Foreign language requirement
	Field examinations
	Doctoral dissertation

The Ph.D. program requires 42 GPA credit hours of coursework, which may include transfer credits. Students must take the Introduction to Graduate Study practicum course, a historical distribution of courses, and at least 9 English literature seminars (18 credits) at Notre Dame. 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 reading knowledge in two languages or fluency in one language. The language(s) should be appropriate to the student's area of research.

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, post-1930 American literature, and global Anglophone. 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. Students then meet with the dissertation committee for advice on continuing and completing the project.

French and Francophone Studies

Chair:
Alison Rice

Director of Graduate Studies:
Gregory Haake

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Web: http://romancelanguages.nd.edu/

The Master of Arts

Degree Requirements	
GPA Credits	30 credits
Total Credits	30 credits
Other	Admission to master's candidacy
	Qualifying examination
	Foreign language requirement
	Candidacy examination
	Master's thesis (Italian studies only)

Students in the M.A. program in French and Francophone studies are expected to complete a minimum of 30 credit hours of courses in their field of specialization. To meet this require-

ment, students are encouraged to work closely with their adviser to design a course of study to suit individual needs, interests, and future goals.

During the second semester of the first year of graduate study, students are required to 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 Francophone studies take a comprehensive written examination 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.

For additional course and examination requirements, consult the program's handbook.

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.

History

Chair:
Elisabeth Köll

Director of Graduate Studies:
Joshua Specht

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Web: 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

Degree Requirements	
GPA Credits	36 credits
Total Credits	36 credits
Other	Admission to master's candidacy
	Foreign language requirement
	Qualifying examinations
	Oral examinations
	Teaching or research assistant service

Students may receive a master of arts after completing 36 credit hours of graduate-level coursework in history or (subject to departmental approval) in 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 who fail a candidacy examination may appeal to the director of graduate studies to retake the failed portion one time. A terminal master's degree may be awarded in cases where a student has completed all coursework, passed at least one language

exam, and passed a master's examination.

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. Students may apply for a transfer of graduate credit from another institution through the program's graduate studies coordinator, with the approval of the director of graduate studies. The number of allowable transfer credits is determined by the DGS and department chair. All transfers must be approved by the Graduate School, which makes the final decision.

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

The Doctor of Philosophy

Degree Requirements	
GPA Credits	36 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Foreign language requirement
	Candidacy examinations
	Doctoral dissertation

To receive a Ph.D., a student must complete a total of 36 letter-graded credit hours of graduate-level coursework in history or (subject to departmental approval) in related disciplines.

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.

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.

History and Philosophy of Science

Reilly Center Director:
Robert D. Goulding

Co-Directors of Graduate Studies:
Evan Ragland
Nic Teh

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HPS at Notre Dame is an interdepartmental program. Because the Ph.D. in HPS incorporates the requirements for a doctorate in a standard disciplinary department, either history, philosophy, or theology, the HPS degree program leads to a doctoral degree inclusive of, but broader in scope than, the departmental degree. Students who take the doctoral degree in the HPS program can claim to have satisfied both the disciplinary degree requirements and also those of an HPS degree. This allows Notre Dame graduates to situate their work within traditional disciplinary contexts and enables them to qualify for academic positions in regular disciplinary departments.

The Master of Arts

Degree Requirements	
GPA Credits	30 credits
Total Credits	30 credits
Other	Admission to master's candidacy
	Foreign language requirement
	Candidacy examinations
	Research paper or master's thesis (terminal M.A. only)

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 30 credit hours of coursework. At least three courses in history of science and at least three courses in philosophy of science (three of which must be chosen from the program's 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 is required.

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. The student must have completed 30 hours of coursework, including at least three courses in history of science and three in philosophy of science. The student should have demonstrated reading knowledge of one foreign language.

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, which may be used to satisfy the coursework requirement. A one-hour oral comprehensive examination completes the requirements for this research M.A. degree.

The Doctor of Philosophy

Degree Requirements	
GPA Credits	45 credits (42 credits for theology and science track)
Total Credits	62 credits
Other	Admission to doctoral candidacy
	Candidacy examinations
	Foreign language requirement and/or approved technical proficiency
	Doctoral dissertation

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 adviser 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. All three fields must be completed by the end of the fall semester of their third year. They do not necessarily have to be taken at the same time.

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 adviser 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. By the end of the spring semester of the 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 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 their choice. The HPS program requires that the proposal defense occur in the spring of the third year (the sixth semester). Students who transfer significant credits will follow the schedule of their respective track department (History, Philosophy, or Theology) when that schedule has earlier deadlines.

Italian

Chair:
Alison Rice

Director of Graduate Studies:
Ted Cachey

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Web: http://romancelanguages.nd.edu

The Master of Arts: Italian Studies

Degree Requirements	
GPA Credits	30 credits
Total Credits	39 credits
Other	Admission to master's candidacy
	Comprehensive examination
	Foreign language requirement
	Master's thesis

Coursework

The master of arts in Italian studies requires 39 total credit hours spread over two years, as follows:

- 2 courses offered by the Italian section per semester for a total of 24 credits
- Introduction to Advanced Studies in Italian (Italian Seminar: 3 credits)
- Foreign Language Acquisition and Instruction (a language pedagogy course: 3 credits)
- Thesis Direction course (6 credits, divided between semesters three and four)
- A course chosen by the student in consultation with the DGS on Italian studies or on a related field or on literary and/or critical theory (3 credits; this course is normally taken in the second semester).

In addition, students must fulfill the language requirement and pass the two-part comprehensive examination. Each student is encouraged to work closely with their adviser to design a course of study to suit individual needs, interests, and future goals.

Comprehensive Examination

The two-part comprehensive examination is based on two reading lists sent to the student at the beginning of their program, on the Italian Seminar, and on the Italian Research Seminars.

The first half of the examination focuses on medieval and Renaissance literature and typically takes place at the beginning of the second semester. The second half of the examination, normally held at the beginning of the third semester, focuses on modern and contemporary literature. Each part of the examination is comprised of a one-hour oral examination attended by the teaching and research faculty in Italian, who constitute the examination committee. At this time, faculty members will discuss and evaluate the student's performance in the master's program. The language of the examination is English. The grading mode for the examination and for the Italian Seminar as a whole is Satisfactory/Unsatisfactory.

Master's Thesis

At the end of the second year, students in Italian studies complete and submit a master's thesis.

Teaching Opportunities

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.

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

The Doctor of Philosophy

Degree Requirements	
GPA Credits	45 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Foreign language requirement
	Candidacy examination
	Doctoral dissertation

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.

Medieval Studies

Director of the Medieval Institute:
Jeffrey Wickes

Director of Graduate Studies:
Denis Robichaud

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Web: http://medieval.nd.edu

The Medieval Institute admits students to a doctor of philosophy degree in medieval studies. After two years of coursework and the successful completion of two language exams (one medieval language exam and one modern language), students earn a master of medieval studies (MMS) 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

Degree Requirements	
GPA Credits	39 credits
Total Credits	42 credits
Other	Admission to master's candidacy
	Medieval research language requirement

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 their primary medieval research language (typically, Latin, Arabic, Greek, or Hebrew) 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 their medieval research language every semester until it is passed.

Students must pass written exams in two modern languages 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

Degree Requirements	
GPA Credits	42 credits
Total Credits	72 credits
Other	Admission to doctoral candidacy
	Foreign language requirement
	Candidacy examinations
	Doctoral dissertation

The Ph.D. requires satisfactory completion of the master of medieval studies outlined above, successful completion of four 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 MMS degree (this decision would reflect failure of the exams or an inability to make reasonable progress toward a proposal)

A first draft of the dissertation proposal must be submitted to the entire anticipated committee by the last week of classes in the fifth semester (normally fall semester of year three). The final proposal must be submitted to the entire anticipated committee in the first week of classes of the following semester (normally spring semester). Proposals will be discussed in a 60- to 90-minute session, to be scheduled no later than two weeks after the proposal has been submitted to the committee. At the end of the meeting, the committee will vote to pass, fail, or defer the candidate's proposal. If the proposal passes, the student is declared ABD and may proceed to dissertating. If the proposal fails, the student will be terminated from the program at the end of the academic year. In the event of a deferral, students have until the Friday before finals week (or, for students entering fall 2021 and after, two weeks from the date of the proposal defense) to submit a satisfactorily revised proposal. After acceptance of the dissertation proposal, most students will require 2.5 to 3.5 years to complete the dissertation. It is not unusual for a satisfactory student to take six 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.

Philosophy

Chair:
Samuel Newlands

Director of Graduate Studies:
Brian Cutter

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Web: http://philosophy.nd.edu

The Master of Arts

Degree Requirements	
GPA Credits	27 credits
Total Credits	30 credits
Other	Admission to master's candidacy
	Candidacy examination

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 their 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: Philosophy

Degree Requirements	
GPA Credits	42 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Foreign language requirement
	Candidacy examination
	Doctoral dissertation

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.

Oral Candidacy Examination

Oral candidacy reading lists should be approved by all members of the examining board by roughly the end of the first week of classes after the mid-semester break of the fifth semester. The oral exam must be passed before the end of the first week of classes after the mid-semester break of the sixth semester.

Language Requirements

The language requirement will be determined for each student by the adviser and director of graduate studies (DGS) immediately after the proposal meeting. After the student's proposal meeting, the director(s) and DGS may agree that the student has the linguistic competence to complete the dissertation and proceed with future academic work. Alternatively, they may agree that the student must demonstrate further competence in languages necessary either to complete the dissertation or to be a responsible professional researcher. The dissertation director(s) and DGS will determine in each case the particular languages and level of expertise required, and the student will not be permitted to defend the dissertation until demonstrating that level of expertise. When the student has completed this requirement, the director(s) will communicate this to the DGS.

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.

The Doctor of Philosophy: Philosophy and Mathematics

Degree Requirements	
GPA Credits	27 credits (philosophy) 18 credits (math basics and topics)
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Foreign language requirement
	Candidacy examination
	Doctoral dissertation

Philosophy students interested in the joint program should begin preparing to apply immediately upon beginning their studies at Notre Dame.

Admission to the joint Ph.D. degree program requires the approval of both the Philosophy and Mathematics Departments. Similarly, any extension of the program milestone deadlines needs the approval of the Philosophy and Mathematics Departments.

Coursework

Students in the joint Ph.D. program are required to complete 27 letter-graded credits in philosophy and two of the three seminars in the history of philosophy normally required for the philosophy Ph.D. program. The 3-credit seminar Intermediate Logic is not required.

By the end of their second year, the joint Ph.D. student should have completed the two-course logic sequence, taken or tested out of at least two other basic courses in mathematics, and become integrated into the research group of a mathematics faculty member whom they intend to be their mathematics supervisor. Philosophy graduate students are expected to complete 10 total courses in mathematics; up to four of these courses may be mathematics-intensive courses outside the Mathematics Department.

Most students will then choose to apply to the master of science in interdisciplinary mathematics program (MSIM). This application describes a list of courses and a research project that the student and their mathematics supervisor propose. While working towards the MSIM, the student will decide whether to complete the degree as initially described or to expand the project into a joint program dissertation. In the latter case, the student applies to the joint-degree program.

Oral Candidacy Examination

To continue on to the joint Ph.D. program, the student must pass the oral candidacy examination in mathematics—similar to the one taken by students pursuing a Ph.D. in mathematical logic—by the beginning of their fourth year. This exam replaces the usual oral candidacy examination held through the philosophy program.

Dissertation Proposal and Completion

Once the student is admitted to joint degree candidacy in both mathematics and philosophy, they must propose, write, defend, and successfully submit a doctoral dissertation to complete the requirements for the joint Ph.D.

For specific course requirements and application details, refer to the Department of Philosophy website or consult the director of graduate studies.

Political Science

Chair:
Geoffrey Layman

Director of Graduate Studies:
Sebastian Rosato

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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

Degree Requirements	
GPA Credits	21 credits
Total Credits	30 credits
Other	Admission to master's candidacy
	Candidacy examinations

The Political Science Department does not normally admit students to the master of arts program; however, students do have the option to complete the requirements for a non-research M.A. degree along the way to the Ph.D.

To obtain the non-research M.A., students must complete a minimum of 21 hours in course credits and must pass a comprehensive written examination in their major field.

The Doctor of Philosophy

Degree Requirements	
GPA Credits	42 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Candidacy examinations
	Foreign language requirement
	Journal article submissions (two)
	Doctoral dissertation

Ph.D. students are expected to complete at least 42 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 six 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.

Psychology, Research and Experimental

Chair:
James Brockmole

Director of Graduate Studies:
Gabriel Radvansky

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Web: http://psychology.nd.edu

The graduate program in psychology, research and experimental, 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 Master of Arts

Degree Requirements	
GPA Credits	24 credits
Total Credits	30 credits
Other	Admission to master's candidacy
	Candidacy examinations
	Master's thesis

The master of arts requires a minimum of 24 hours of graded coursework, and the completion and defense of a research-based master's thesis.

For specific course requirements, consult the program's handbook.

The Doctor of Philosophy

Degree Requirements	
GPA Credits	26 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Candidacy examinations
	Practicum (as appropriate)
	Doctoral dissertation
	Internship (clinical area)

Students are expected to complete 60 or more credit hours, and may be required to complete a practicum when appropriate. The written and 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.

Sacred Music

Director:
Rebecca Maloy

Director of Graduate Studies:
Heather Wiebe

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Web: http://sacredmusic.nd.edu/

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 (MSM) degree and the doctor of musical arts (DMA) degree.

The Master of Sacred Music

Degree Requirements	
GPA Credits	48 credits
Total Credits	48 credits
Other	Admission to master's candidacy
	Recital / Performance
	Internship / Assistantship

The sacred music MSM 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 9 hours per week in these positions.

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

Doctor of Musical Arts

Degree Requirements	
GPA Credits	47 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Foreign language requirement
	Candidacy examination
	Recital / Performance
	Internship / Assistantship
	Doctoral dissertation

The Sacred Music Program's DMA is a three-year 60-credit-hour degree. 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 DMA 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 GPA 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 DMA Dissertation

In continuing consultation with the dissertation director, the candidate explores research and performance areas in their 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 9 hours per week in these positions.

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

Sociology

Chair:
Terence McDonnell

Director of Graduate Studies:
David Gibson

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The Master of Arts

Degree Requirements	
GPA Credits	24 credits
Total Credits	30 credits
Other	Admission to master's candidacy
	Candidacy examinations
	Master's thesis

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 Doctor of Philosophy

Degree Requirements	
GPA Credits	39 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Candidacy examinations
	Doctoral dissertation

The doctoral program normally occupies six years of full-time work for students entering with a 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.

Spanish

Chair:
Alison Rice

Director of Graduate Studies:
Pedro Aguilera-Mellado

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The Master of Arts

Degree Requirements	
GPA Credits	30 credits
Total Credits	30 credits
Other	Admission to master's candidacy
	Qualifying examination
	Foreign language requirement
	Candidacy examination

Students in the M.A. program in Spanish are expected to complete a minimum of 30 credit hours of courses in their field of specialization. To meet this requirement, students are encouraged to work closely with their adviser to design a course of study to suit individual needs, interests, and future goals.

During the second semester of the first year of graduate study, students in the M.A. program 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 Spanish take a comprehensive written examination 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.

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

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.

The Doctor of Philosophy

Degree Requirements	
GPA Credits	45 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Candidacy examination
	Comprehensive examination
	Foreign language requirement
	Doctoral defense
	Doctoral dissertation

The Ph.D. in Spanish is a highly selective program that teaches and trains students working in the field of Iberian 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 specialization include Portuguese, Italian, French, Latino studies, philosophy, film studies, literary and cultural theory, gender studies, race studies, memory studies, human rights, religion and literature, and so on.

Theology

Chair:
Khaled Anatolios

Directors of Graduate Studies:
Catherine Cavadini (M.A. program)
Fr. Mark Poorman, C.S.C. (interim, M.Div. program)
David Lincicum (MTS program)
Daniel Machiela (Ph.D. program)

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The Master of Arts

Degree Requirements	
GPA Credits	36 credits
Total Credits	36 credits
Other	Admission to master's candidacy
	Capstone course

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 a variety of settings. Recipients of this degree will have received instruction in the classical areas of theological inquiry.

M.A. students may take courses on an online hybrid track during the academic year or on an in-person hybrid track during the summer for credit toward 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 discipline of theology, and made accessible to a particular audience.

For specific requirements, see the program handbook.

The Master of Divinity

Degree Requirements	
Lay Students	
GPA Credits	60 credits
Total Credits	86 credits (theological, pastoral, human, and spiritual formation)
Other	Admission to master's candidacy
	Synthesis Seminar project and presentation
	Participation in human and spiritual formation within the lay community

Degree Requirements	
Seminarian Students	
GPA Credits	60 credits
Total Credits	106 credits (theological and pastoral)
Other	Admission to master's candidacy
	Synthesis Seminar project and presentation

Degree Requirements	
	Formation within the context of the Congregation of Holy Cross

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 coursework, including theological and pastoral studies as well as six credits of human and spiritual formation. 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.

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 methods 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 reflection, 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

Degree Requirements	
GPA Credits	48 credits
Total Credits	48 credits
Other	Admission to master's candidacy
	Foreign language requirement
	Candidacy examination

The master of theological studies (MTS) program trains graduate students for future doctoral work as well as alternative academic vocations in the various disciplines within the study of theology. The MTS 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 MTS also includes participation in the master's colloquium, competency in at least one modern language, and the completion of a 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 the area of world religions and world Church has a foreign language requirement.

In all, there are six areas of concentration in the MTS 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 MTS director.

In order to introduce every MTS student to a wide range of theologi-

cal 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

Degree Requirements	
GPA Credits	42 credits
Total Credits	60 credits
Other	Admission to master's candidacy
	Foreign language requirement
	Candidacy examinations
	Doctoral dissertation

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

- Christianity and Judaism in antiquity
- 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/early Judaism or New Testament/early Christianity; history of Christianity; early Church, medieval studies, Reformation, or 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.

The language requirement should be fulfilled as soon as possible and must be fulfilled by the fall of the third year.

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 adviser, 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.

College of Engineering

Aerospace and Mechanical Engineering

Chair:
Glen Niebur

Director of Graduate Studies:
Maria Holland

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:

- bioengineering: biomedical engineering, tissue engineering, and mechanobiology;
- computational engineering: multiphysics simulations, machine learning, and scientific computing;
- fluid mechanics: flow physics and aerodynamics, materials and thermal sciences;
- manufacturing: additive and advanced manufacturing;
- robotics and controls.

The programs of study and research lead to the degrees of master of science in aerospace engineering (MSAE), master of science in mechanical engineering (MSME), 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

Degree Requirements	
GPA Credits	18 credits (research) 24 credits (non-research)
Total Credits	30 credits
Other	Candidacy examination
	Master's thesis or project

The master of science programs (MSAE and MSME) 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, coursework-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

Degree Requirements	
GPA Credits	30 credits
Total Credits	60 credits
Other	Qualifying examination
	Candidacy examination
	Doctoral dissertation

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

A written and 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.

Bioengineering

Director of Graduate Admissions:
Donny Hanjaya-Putra

Program Director:
Pinar Zorlutuna

Managing Director:
Cheryl Lee

Telephone: 574-631-5097
Location: 2027 McCourtney Hall East
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 coursework required, see the program handbook.

The Master of Science

Degree Requirements	
GPA Credits	18 credits
Total Credits	30 credits
Other	Comprehensive oral exam
	Master's thesis or project

Students who are unable to complete their Ph.D. program may complete a research master of science degree by submitting a required a written thesis. Those wishing to complete a non-research, coursework-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. The program does not offer or admit to a terminal master's program.

The Doctor of Philosophy

Degree Requirements	
GPA Credits	27 credits
Total Credits	72 credits
Other	Comprehensive qualifying examination
	Dissertation proposal
	Dissertation proposal defense
	Dissertation defense
	Dissertation submission to Graduate School
	Teaching assistant service

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 choose to pursue their studies with an emphasis in one of the following engineering fields: aerospace and mechanical, chemical, electrical, civil and environmental, or computer science.

Students complete a minimum of nine courses (27 credit hours). Degree plans are designed in cooperation with the student's adviser. 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

Each student must pass the comprehensive qualifying examination following their second semester. 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 their 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.

Chemical and Biomolecular Engineering

Chair:
William F. Schneider

Director of Graduate Admissions:
Başar Bilgiçer

Director of Graduate Studies:
Jonathan K. Whitmer

Telephone: 574-631-5580
Fax: 574-631-8366
Location: 250 Nieuwland Hall
E-mail: cbe@nd.edu
Web: http://cbe.nd.edu

The department offers programs leading to the degrees of 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.

The Master of Science in Chemical Engineering

Degree Requirements	
GPA Credits	18 credits
Total Credits	30 credits
Other	Research proposal evaluation
	Candidacy examination
	Admission to candidacy
	Master's thesis or project

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

Students wishing to complete a master of science degree, with thesis, are required to submit a written thesis that is defended in a final oral presentation.

A student pursuing the Ph.D. degree will be eligible to receive an M.S. degree after completing four semesters in the Ph.D. program, passing the Ph.D. research proposal evaluation, and publishing a research paper in collaboration with the student's research adviser(s). This paper shall describe work in which the student has a primary (not supporting) role and be published in a peer-reviewed research journal.

Students wishing to complete a non-thesis program are required to submit a research or design project with a project report to their research adviser, and obtain approval from the DGS in consultation with their adviser. In general, students are encouraged to follow the thesis path.

The Doctor of Philosophy

Degree Requirements	
GPA Credits	24 credits
Total Credits	60 credits
Other	Research proposal evaluation
	Candidacy examination
	Admission to candidacy
	Doctoral dissertation

The Ph.D. requires 24 credit hours of graduate coursework (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 12 credit hours, provided that the transferred credits satisfy departmental guidelines for coursework distribution and grade point average.

A written and oral research proposal evaluation is used to assess student readiness to pursue a Ph.D. and must be completed prior to the end of the fourth semester in residence. The student is admitted to doctoral candidacy after passing the candidacy examination. This examination, ordinarily completed after approximately three years of study, consists of a written and oral presentation of thesis research to the student's dissertation committee. At the conclusion of the program, the results of the student's 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.

Civil and Environmental Engineering and Earth Sciences

Chair:
Diogo T. Bolster

Directors of Graduate Studies:
Alexandros Taflanidis (MSCE, M.S.Env.E., MSES, and Ph.D. programs)
Kevin Walsh (M.Eng. program)

Telephone: 574-631-5381
Fax: 574-631-9236
Location: 156 Fitzpatrick Hall
E-mail:
Research: ceeesdgs@nd.edu
M.Eng.: masteng@nd.edu
Web: http://ceees.nd.edu

All students in the research-based Ph.D. and master's programs participate in the educational mission of the department by serving as teaching assistants (TA) for the first five semesters. TA assignments are made on the basis of 4 or 8 hours per week depending upon the needs of the department.

The Master of Engineering (Professional Degree)

Degree Requirements	
GPA Credits	30 credits
Total Credits	30 credits
Other	Admission to candidacy

Notre Dame's professional master of engineering (M.Eng.) degree is aligned with professional practice goals rather than a research-focused master's or doctoral path. The M.Eng. program offers four concentrations: structural engineering; construction engineering and management; environmental engineering—water quality, treatment, and recovery; and environmental engineering—fluid dynamics and modeling.

Students are required to earn 30 credits total, with at least 24 credits at the 60000 level or higher, and the remaining 6 credits at the 40000 level or higher.

For specific details regarding concentration requirements and recommended courses, refer to the program's handbook or https://sites.nd.edu/meng.

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

Degree Requirements	
GPA Credits	16 credits
Total Credits	30 credits
Other	Admission to candidacy
	Master's thesis

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

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 master of science degrees require 30 semester credit hours, including at least 16 to 24 credits of formal graduate coursework, 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

Degree Requirements	
GPA Credits	18 credits
Total Credits	72 credits
Other	Qualifying examination
	Oral candidacy examination
	Admission to candidacy
	Doctoral dissertation

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 coursework, are required for the Ph.D. Students are expected to complete all degree requirements in approximately four years.

Coursework requirements are established by each Ph.D. student and their adviser(s). 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 qualifying 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.

Computer Science and Engineering

Chair:
Jane Cleland-Huang

Director of Graduate Studies:
Tim Weninger

Telephone: 574-631-8802
Fax: 574-631-9260
Location: 380 Fitzpatrick 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

Degree Requirements	
Courses	24 credits
Total	30 credits
Other	Master's thesis (research)
	Master's project (non-research)

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.

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

The Doctor of Philosophy

Degree Requirements	
GPA Credits	24 credits
Total Credits	60 credits
Other	Candidacy examination
	Doctoral dissertation

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 adviser. 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 coursework 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 by the fourth semester after entering the program.

The oral candidacy examination, consisting of both written and oral exams, takes place by the end of the eighth semester and after the completion of the formal coursework. After passing the Ph.D. oral candidacy exam, the student devotes essentially all efforts to completing their 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:
Anthony Hoffman

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 (MSEE) and the doctor of philosophy (Ph.D.).

The Master of Science in Electrical Engineering

Degree Requirements	
GPA Credits	18 credits (research) 30 credits (non-research)
Total Credits	30 credits
Other	Qualifying examination
	Master's thesis (research)

A research master of science in electrical engineering (MSEE) 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 MSEE requires 30 credit hours of coursework. 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

Degree Requirements	
GPA Credits	27 credits
Total Credits	60 credits
Other	Qualifying examination
	Candidacy examinations
	Doctoral dissertation

To continue to the Ph.D. program, students must pass the qualifying exam and secure support from a faculty adviser before the start of their third semester. Doctoral students must accumulate a minimum of 27 course credits from graded lecture classes 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.

Engineering and Law Dual Degree Program

Degree Requirements	
GPA Credits	75 credits (law) 24 credits (STEM)
Total Credits	99 credits
Other	Must be candidate for the juris doctor
	Admission to master's candidacy
	Master's examination

Note: This master of engineering program is distinct from the professional M.Eng. offered by the Department of Civil and Environmental Engineering and Earth Sciences, and is not available as an independent degree program.

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 ABET accredited engineering or computer science program and must also be a candidate for the juris doctor (J.D.) degree in the Notre Dame Law School.

To be awarded both the J.D. and the M.Eng., 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 coursework-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 adviser 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.

Materials Science and Engineering

Director of Graduate Studies:
Masaru Kuno

Telephone: 574-631- 6470

Location: 206 Cushing Hall
E-mail: mse-list@nd.edu
Web: https://mse.nd.edu

The materials science and engineering (MSE) doctoral program aims to further the interdisciplinary understanding of materials through collaborative research.

The Doctor of Philosophy

Degree Requirements	
GPA Credits	Home program requirements, which include 9 credits of MSE courses
Total Credits	Home program requirements, which include 9 credits of MSE courses
Other	Qualifying examination
	Candidacy examinations
	Doctoral dissertation

Notre Dame's materials science and engineering doctoral program is a distinctive, interdisciplinary Ph.D. program offered in collaboration with seven graduate programs in the College of Engineering and College of Science. For students pursuing the engineering focus, one of the following doctoral programs should be designated as the student's home program:

- Aerospace and mechanical engineering
- Bioengineering
- Chemical and biomolecular engineering
- Civil and environmental engineering and earth sciences
- Electrical engineering

Refer to the College of Science entry for participating programs in the field of science.

Materials science and engineering students are expected to:

- meet home department Ph.D. requirements;
- complete nine credit hours selected from the MSE course list;
- select a faculty interdisciplinary mentor who crosses disciplines, preferably from outside the home department or program; and
- complete a doctoral dissertation with a significant materials component, as approved by the Materials Science and Engineering Steering Committee.

If all degree requirements for both the home program and the MSE program are completed, the major recorded on the student's transcript will reflect the interdisciplinary nature of the degree (e.g., "Aerospace and Mechanical Engineering: Materials Science and Engineering").

Course Requirements

Materials science and engineering students are expected to meet the coursework requirements of the home department or program. Students will take a minimum of nine credit hours from a designated set of materials science and engineering graduate courses. Two of the three courses must be the two required courses; the third course can be any course from the approved list. Details and courses are listed at https://mse.nd.edu/doctoral-program/courses/.

Doctoral Dissertation

A materials science and engineering student must complete a doctoral dissertation that has a significant materials component, as approved by the Steering Committee.

Students are expected to follow the candidacy examination policy guidelines as set out in the home department or program policies. To ensure the proposal still aligns with the student's research upon entering the program, the student should submit a copy of the candidacy proposal to both the steering committee and the candidacy review committee in their home department or program.

Students should follow the dissertation and defense policy guidelines as set in the home department or program policies. Additionally, each student must submit a review copy of the dissertation to both the steering committee and the home program's defense committee in preparation for defense. The steering committee will review the dissertation to ensure it is materials focused and aligns with the student's candidacy materials.

For additional information regarding coursework, examinations, and other requirements for this Ph.D., refer to the relevant home program and materials science and engineering graduate student handbooks.

College of Science

Applied and Computational Mathematics and Statistics

Chair:
Jonathan Hauenstein

Directors of Graduate Studies:
Roger Woodard (M.S. Data Science)
Bei Hu (M.S. Professional)
Robert Rosenbaum (Ph.D.)

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 (Professional Degree)

Degree Requirements	
GPA Credits	30 credits
Total Credits	30 credits
Other	Admission to master's candidacy

Notre Dame's online master of science program in data science is offered by the Department of Applied and Computational Mathematics and Statistics (ACMS), which brings together faculty from across the University and seasoned industry experts.

Intentionally designed for working professionals, the program allows students to earn their degree in just 21 months through part-time enrollment, with six credits per semester across five consecutive semesters. This flexible structure enables students to maintain full-time employment while earning their degree.

The program's online format is designed to facilitate the learning of complex quantitative material. Students benefit from small, live online classes taught by Notre Dame faculty and industry professionals, ensuring a highly personalized and interactive learning experience. Additionally, students can participate in exclusive immersion weekends, combining hands-on project work with industry roundtables and professional development opportunities.

The Master of Science (Professional Degree)

Degree Requirements	
GPA Credits	30 credits
Total Credits	30 credits
Other	Admission to master's candidacy

The professional master of science degree in ACMS trains students in the mathematical, statistical and computational tools used in data science, 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)

Degree Requirements	
GPA Credits	30 credits
Total Credits	30 credits
Other	Admission to master's candidacy
	Written examination
	Oral examination (ACMS Ph.D.)
	Oral examination (non-ACMS Ph.D.)

Students who are working toward a Ph.D. in the ACMS 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. For

details of the requirements, refer to the program handbook.

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 their adviser, 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

Degree Requirements	
GPA Credits	27 credits
Total Credits	73.5 credits
Other	Admission to doctoral candidacy
	Candidacy examination
	Doctoral dissertation

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 coursework 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 coursework. 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 before the start of year two. 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.

Biological Sciences

Chair:
Jason Rohr

Director of Graduate Studies:
David Medvigy

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

The Master of Science

Degree Requirements	
GPA Credits	12 credits
Total Credits	30 credits
Other	Admission to master's candidacy
	Candidacy examination or final research or written project
	Master's thesis

The master of science degree is a 30-credit-hour program requiring the satisfactory completion of a minimum of 12 credit hours of coursework, passing a research proposal review, and completing a suitable master's thesis.

The Doctor of Philosophy

Degree Requirements	
GPA Credits	12 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Candidacy examination
	Doctoral dissertation

For the degree of doctor of philosophy, the student is expected to complete a minimum of 60 total credit hours. This is composed of at least 12 credit hours of coursework 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.

Biophysics

Directors of Graduate Studies:
Director, Laurie Littlepage
Associate Director, Jeff Schorey

Telephone: 574-631-3511
Location: 201G Crowley Hall
E-mail: biophys@nd.edu
Web: http://biophysics.nd.edu

The Master of Science

Degree Requirements	
GPA Credits	18 credits
Total Credits	30 credits
Other	Admission to master's candidacy
	Candidacy examination

The graduate program in biophysics 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 (M.S.) is available; it involves satisfactory completion of graduate coursework 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

Degree Requirements	
GPA Credits	18 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Laboratory rotations (3)
	Candidacy examination
	Doctoral defense and dissertation

The biophysics Ph.D. is an interdisciplinary program that offers students the opportunity to participate in research that crosses home department boundaries. The curriculum options include the following: applied and computational mathematics and statistics, biological sciences, chemistry and biochemistry, and physics.

If all degree requirements for both the home program and the biophysics program are completed, the major recorded on the student's transcript will reflect the interdisciplinary nature of the degree (e.g., "Biophysics and Biological Sciences").

Requirements for the Ph.D. include at least 18 credit hours of coursework 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 coursework further tailored to their needs and interests, selected in consultation with their adviser. 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.

All students admitted to the program ultimately identify themselves with one of three research and training tracks, depending on their interests: biosciences, computational and statistical modeling, or physics.

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

In addition to coursework, there are three examinations to be passed for a Ph.D.—a written and oral Ph.D. candidacy examination, and an oral Ph.D. dissertation defense. The candidacy examination is typically taken in the fourth semester, after coursework is complete.

Candidacy examinations and dissertation requirements follow the traditions and formats currently in place for the biophysics program.

To remain in good standing, students are required to: maintain a 3.0 grade point average, pass the candidacy exam

before the end of their fourth semester, and defend and submit 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:
J. Daniel Gezelter

Director of Graduate Admissions:
Vlad M. Iluc

Director of Graduate Studies:
Gregory Hartland

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Fax: 574-631-6652
Location: 251 Nieuwland Science
E-mail: chemistry@nd.edu
Web: http://chemistry.nd.edu

The Master of Science: Biochemistry or Chemistry

Degree Requirements	
GPA Credits	18 credits
Total Credits	30 credits
Other	Admission to master's candidacy
	Master's comprehensive examination
	Master's thesis (at adviser's discretion)

The Department of Chemistry and Biochemistry does not admit students directly into a master's program. However, the department does offer a master of science (M.S.) degree option for graduate students in the chemistry or biochemistry majors under the following circumstances:

- the student has been placed into the master's program because of unsatisfactory progress towards the Ph.D. degree;
- the student has passed the oral candidacy exam and has elected to discontinue their work towards the Ph.D. and entered the master's program; or
- the student has completed all the requirements to be advanced to candidacy, and has elected to obtain a master's degree an dremain in the Ph.D. program.

A non-thesis master's degree is available for students who have completed 18 credits of graded coursework and have at least 30 total credits. A master's comprehensive examination is also required.

At the discretion of the adviser and only with the adviser's financial support, a student who is moved into the M.S. program may have the option of completing a thesis in the adviser's laboratory.

For additional degree requirements, refer to the program handbook.

The Doctor of Philosophy

Degree Requirements	
Courses	18 credits
Total	60 credits
Other	Admission to doctoral candidacy
	Candidacy examination
	Research progress report
	Doctoral dissertation

Graduate students pursuing a Ph.D. in chemistry or biochemistry must complete at least 18 credits of coursework prior to the end of their third semester. A combined total of 60 credits are required; this total includes all courses taken, including not only instructional coursework, but research, seminars, directed readings, etc. The program may accept coursework completed at another accredited university toward meeting the requirements for either doctoral degree.

To continue in the Ph.D. program, students must pass the oral candidacy examination (OCE). The OCE 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.

Engineering, Science and Technology Entrepreneurship Excellence Master's Program

Program Director:
David Murphy

Director of Graduate Studies:
Neil Kane

Telephone: 574-631-9579
Location: 1400 E. Angela Blvd.
E-mail: esteem@nd.edu
Web: http://esteem.nd.edu

The Master of Science

Degree Requirements	
GPA Credits	33 credits
Total Credits	36 credits
Other	Admission to master's candidacy
	Capstone project and oral defense

The curriculum of the 11-month engineering, science, and technology entrepreneurship excellence master's (ESTEEM) program 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 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 core classes to gain both entrepreneurial and business fundamentals in topics such as design thinking, AI, and finance;
- pass 12 credit hours of electives, typically related to career goals and interests as well as the students capstone project; and
- defend and submit their capstone 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.

Global Health

Director:
Elizabeth Wood

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E-mail: ghms@nd.edu
Web: http://globalhealth.nd.edu

The Master of Science (Professional Degree)

Degree Requirements	
GPA Credits	42 credits
Total Credits	42 credits
Other	Admission to master's candidacy
	8–12 weeks of field experience
	Capstone field research

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

Integrated Biomedical Sciences

Directors of Graduate Studies:
Director, Jeff Schorey
Associate Director, Laurie Littlepage

Telephone: 574-631-9559
Location: 234 Nieuwland Science Hall
E-mail: ibms@nd.edu
Web: http://ibms.nd.edu/

The Doctor of Philosophy

Degree Requirements	
GPA Credits	18 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Laboratory rotations (3)
	Candidacy examination
	Doctoral dissertation

The integrated biomedical sciences (IBMS) Ph.D. is an interdisciplinary program that offers students the opportunity to participate in research that crosses home department boundaries. The curricula options include the following: applied and computational mathematics and statistics, biological sciences, chemistry and biochemistry, mathematics, and physics.

If all degree requirements for both the home program and the IBMS program are completed, the major recorded on the student's transcript will reflect the interdisciplinary nature of the degree (e.g., "Integrated Biomedical Sciences and Physics").

All IBMS students admitted to the program ultimately identify themselves with one of eight research and training clusters, depending on their interests: biophysics and structural biology, cancer biology, cellular and molecular biology, chemical biology and molecular pharmacology, computational biology and bioinformatics, genomics and proteomics, immunology and infectious disease, or neuroscience.

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 18 credit hours of coursework. During the first year, this includes courses specific to each research and training cluster. After the first year, students take coursework further tailored to their needs and interests, selected in consultation with their adviser. 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 formats outlined in the IBMS Graduate Student Guide.

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

Materials Science and Engineering

Director of Graduate Studies:
Masaru Kuno

Telephone: 574-631- 6470
Location: 206 Cushing Hall
E-mail: mse-list@nd.edu
Web: https://nano.nd.edu/materials-science

The materials science and engineering (MSE) doctoral program aims to further the interdisciplinary understanding of materials through collaborative research.

The Doctor of Philosophy

Degree Requirements	
GPA Credits	Home program requirements, which include 9 credits of MSE courses
Total Credits	Home program requirements, which include 9 credits of MSE courses
Other	Admission to doctoral candidacy
	Qualifying examination
	Candidacy examinations
	Doctoral dissertation

Notre Dame's materials science and engineering doctoral program is a distinctive, interdisciplinary Ph.D. program offered in collaboration with seven graduate programs in the College of Engineering and College of Science. For students pursuing the science focus, one of the following doctoral programs should be designated as the student's home program:

- Chemistry and biochemistry
- Physics

Refer to the College of Engineering entry for participating programs in the field of engineering.

Materials science and engineering students are expected to:

- meet home department PhD requirements;
- complete nine credit hours selected from the MSE course list;

- select a faculty interdisciplinary mentor who crosses disciplines, preferably from outside the home department or program; and
- complete a doctoral dissertation with a significant materials component, as approved by the Materials Science and Engineering Steering Committee.

If all degree requirements for both the home program and the MSE program are completed, the major recorded on the student's transcript will reflect the interdisciplinary nature of the degree (e.g., "Physics: Materials Science and Engineering").

Course Requirements

Materials science and engineering students are expected to meet the coursework requirements of the home department or program. Students will take a minimum of nine credit hours from a designated set of materials science and engineering graduate courses. Two of the three courses must be the two required courses; the third course can be any course from the approved list. Details and courses are listed at https://mse.nd.edu/doctoral-program/courses/.

Doctoral Dissertation

A materials science and engineering student must complete a doctoral dissertation that has a significant materials component, as approved by the Steering Committee.

Students are expected to follow the candidacy examination policy guidelines as set out in the home department or program policies. To ensure the proposal still aligns with the student's research upon entering the program, the student should submit a copy of the candidacy proposal to both the steering committee and the candidacy review committee in their home department or program.

Students should follow the dissertation and defense policy guidelines as set in the home department or program policies. Additionally, each student must submit a review copy of the dissertation to both the steering committee and the home program's defense committee in preparation for defense. The steering committee will review the dissertation to ensure it is materials focused and aligns with the student's candidacy materials.

For additional information regarding coursework, examinations, and other requirements for this Ph.D., refer to the relevant home program and materials science and engineering graduate student handbooks.

Mathematics

Chair:
David Galvin

Director of Graduate Studies:
Samuel Evens

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Fax: 574-631-6579
Location: 255 Hurley Hall
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Web: http://math.nd.edu

The Master of Science

Degree Requirements	
GPA Credits	30 credits
Total Credits	30 credits
Other	Admission to master's candidacy
	Candidacy examination

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

Degree Requirements	
GPA Credits	24 credits
Total Credits	30 credits
Other	Admission to master's candidacy
	Candidacy examination
	Master's thesis or project

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. Students are not normally admitted directly to the MSIM 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 adviser(s), and the dean of the Graduate School.

The master of science in interdisciplinary mathematics is strongly recommended for doctoral students in philosophy wishing to pursue the joint Ph.D. program in philosophy and mathematics.

For more information on course and program requirements, refer to the program's handbook.

The Doctor of Philosophy: Mathematics

Degree Requirements	
GPA Credits	27 credits (basics and topics)
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Candidacy examination
	Doctoral dissertation

Students in the mathematics doctoral program are expected to complete at least 27 credit hours of coursework (basics and topics) and four consecutive semesters of full-time study. First-year students have no teaching duties.

Passing the written candidacy examination requires at least a B in any six basic classes—or by placing or testing out of basic 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, refer to the program's handbook

The Doctor of Philosophy: Mathematics and Philosophy Joint Degree Program

Degree Requirements	
GPA Credits	27 credits (math basics and topics) 27 credits (philosophy)
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Candidacy examination
	Doctoral dissertation

In collaboration with the Philosophy Department, the Mathematics Department offers a joint Ph.D. program for students interested in mathematical logic as well as philosophy. Admission to this doctoral program, and any subsequent extension of milestone deadlines, requires the approval of both departments.

Students with a primary focus of mathematics are expected to complete at least 27 credit hours of coursework (basics and topics) and four consecutive semesters of full-time study. First-year students have no teaching duties.

Passing the written candidacy examination requires at least a B in any six basic classes—or by placing or testing out of basic classes—and must be completed during the first year. The oral candidacy examination is taken during the second year.

During the first and second year of study, the student should enroll in one research seminar with a heavy writing component in the Philosophy Department each semester. To verify that a seminar will fulfill this condition, students should check with their director of graduate studies. All approved seminars taken prior to application will be retroactively counted towards fulfillment of the joint Ph.D. To allow students in the joint program time to complete their philosophy seminars, the Mathematics Department may delay two of the required basic courses to the second year.

Students planning to apply to the joint Ph.D. program are strongly advised to do so before the start of their third year. Admission to the program must be completed prior to the start of the student's fifth year. The student is expected to work with co-advisers in both mathematics and philosophy, and should have a research plan suited for the joint degree approved by the end of their sixth year.

Once the student is admitted to degree candidacy in both mathematics and philosophy, they must write, defend and successfully submit a doctoral dissertation to complete the requirements for the joint Ph.D.

For more information on course and program requirements, refer to the program's handbook

M.D./Ph.D. Joint Degree Program

Director of Regional Medical Education:
Stacey Patrick

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Location: 1234 Notre Dame Ave.,
E-mail: sajacks@iu.edu
Web: http://medicine.iu.edu/southbend

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 normally expected of 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.

Physics

Chair:
Morten R. Eskildsen

Director of Graduate Admissions:
Sylwia Ptasinska

Director of Graduate Studies:
Anna Simon-Robertson

Telephone: 574-631-6386
Location: 225 Nieuwland Science Hall
E-mail: physics@nd.edu
Web: http://physics.nd.edu

The Master of Science

Degree Requirements	
GPA Credits	24 credits
Total Credits	30 credits
Other	Admission to master's candidacy
	Candidacy examination

The graduate program in physics, offered through the Department of Physics and Astronomy, is primarily a doctoral program leading to the degree of doctor of philosophy. The program 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, and requires satisfactory completion of graduate coursework 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 or ungraded coursework 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.

The Doctor of Philosophy

Degree Requirements	
GPA Credits	27 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Preliminary examination

Degree Requirements	
	Candidacy examination
	Doctoral dissertation

Requirements for the Ph.D. in physics 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 spring 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 coursework is complete.

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, maintain satisfactory progress in coursework and research as detailed in the program handbook, 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.

Keough School of Global Affairs

Global Affairs

Associate Director of Graduate Recruitment and Admissions:
Christian Lehman

Director of Graduate Studies:
Bill Goldberg

Telephone: 574-631-0934
Fax: 574-631-4241
Location: 1010 Jenkins Nanovic Hall
E-mail: keough-admissions@nd.edu
Web: http://keough.nd.edu/master-of-global-affairs/

The Master of Global Affairs

Degree Requirements	
GPA Credits	36 credits
Total	46 credits
Other	Admission to master's candidacy
	Option 1: Field experience (2 months) and 3-semester Integration Lab; or
	Option 2: Field experience (5 months) and capstone paper; or
	Option 3: Master's thesis

The interdisciplinary master of global affairs (MGA) degree program is a rigorous academic program offered through the Keough School of Global Affairs. Students are expected to complete at least 46 credits of coursework, including 36 letter-graded GPA credits, in pursuit of the MGA, and must select a major: governance and policy, sustainable development, or international peace studies. All students are required to take core and major-specific coursework, and to participate in the Keough Career Colloquium and in a field experience practicum or write a thesis.

A key component of the MGA 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. Field experience options are typically determined by the major. Sustainable development and governance and policy students spend two months during the summer between their first and second years in the field and participate fully in the Integration Lab during the first, second, and third semesters. Students in the international peace studies major undertake the five-month field experience and 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 internship. These students research and write a thesis under the supervision of a thesis director.

For additional details regarding course, examination, and service requirements, consult the program handbook.

Peace Studies

Director of the Joan B. Kroc Institute for International Peace Studies:
Asher Kaufman

Director of Graduate Studies:
Catherine Bolten

Assistant Director for Doctoral Studies:
Kathryn Vidrine

Telephone: 574-631-3324
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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 offers a Ph.D. in international peace studies as well as doctoral degrees offered jointly in partnership with the programs in

anthropology, history, political science, psychology, sociology, and theology in the College of Arts and Letters. 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 joint programs in peace studies are fully credentialed in one of the six associated disciplines, and are fully acquainted with the research questions and findings of interdisciplinary peace research.

Ph.D. in International Peace Studies

Degree Requirements	
GPA Credits	48 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Foreign language requirement
	Comprehensive examination
	Dissertation defense
	Doctoral dissertation

The Ph.D. in international peace studies typically requires a minimum of 18 credits of letter-graded course credits in peace studies, and 30 hours of letter-graded course credits of electives chosen in consultation with and approved by the director of doctoral studies, of which at least six credits must be research methods.

In addition to the required credit hours, students in this program are expected to:

- Demonstrate documented proficiency in English and one other language;
- Complete at least five semesters of service as a research or teaching assistant in peace studies;
- Submit application(s) for external funding for scholarly research;
- Submit an article for external peer review; and
- Defend and submit to the Graduate School a dissertation of original research.

The comprehensive examination in peace studies is normally completed during the student's third year.

Examiners should be tenured or tenure-track members of the Kroc Institute core faculty.

For additional details regarding course, examination, and service requirements, please consult the Kroc Institute Ph.D. student manual.

Ph.D. in Peace Studies and Anthropology

Degree Requirements	
GPA Credits	42 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Foreign language requirement
	Comprehensive examination
	Dissertation defense
	Doctoral dissertation

The Ph.D. in peace studies and anthropology typically requires a minimum of 18 credits of letter-graded course credits in peace studies, and 24 hours of letter-graded course credits in anthropology.

In addition to the required credit hours, students in this program are expected to:

- Demonstrate documented proficiency in English and one other language;
- Complete at least five semesters of service as a research or teaching assistant in peace studies and anthropology;
- Submit application(s) for external funding for scholarly research;
- Submit an 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 third year.

Examiners should be tenured or tenure-track members of the Kroc Institute core faculty and Department of Anthropology faculty.

For additional details regarding course, examination, and service requirements, please consult the Kroc Institute Ph.D. student manual.

Ph.D. in Peace Studies and History

Degree Requirements	
GPA Credits	48 credits
Total	60 credits
Other	Admission to doctoral candidacy
	Foreign language requirement
	Comprehensive examination (peace studies)
	Comprehensive examination (history)

Degree Requirements	
	Dissertation defense
	Doctoral dissertation

The Ph.D. in peace studies and history typically requires a minimum of 18 letter-graded course credits in peace studies, and 30 letter-graded course credits in history.

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;
- Complete at least five semesters of service as a research or teaching assistant in peace studies and history
- Submit application(s) for external funding for scholarly research;
- Submit an article for external peer review; and
- Defend and submit to the Graduate School a dissertation of original research.

Students in the peace studies and history program complete separate exams in peace studies and in history.

For additional details regarding course, examination, and service requirements, please consult the Kroc Institute Ph.D. student manual.

Ph.D. in Peace Studies and Political Science

Degree Requirements	
GPA Credits	51 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Foreign language requirement
	Comprehensive examination (peace studies)
	Comprehensive examination (political science)
	Dissertation proposal defense
	Doctoral dissertation

The Ph.D. in peace studies and political science typically requires a minimum of 18 letter-graded course credits in peace studies, and 33 letter-graded course credits in political science.

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;
- Complete at least five semesters of service as a research or teaching assistant in peace studies and political science;
- Submit application(s) for external funding for scholarly research;
- Submit an 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 exams in peace studies and in their primary field in political science.

For additional details regarding course, examination, and service requirements, please consult the Kroc Institute Ph.D. student manual.

Ph.D. in Peace Studies and Psychology

Degree Requirements	
GPA Credits	60 credits (clinical) 44 credits (developmental)
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Foreign language requirement
	Comprehensive examination (peace studies)
	Preliminary examination (psychology)
	Master's thesis
	Internship (clinical)
	Dissertation proposal defense
	Doctoral dissertation

The Ph.D. in peace studies and psychology typically requires a minimum of 18 letter-graded course credits in peace studies and 42 letter-graded course credits in psychology (clinical) or 26 letter-graded course credits in psychology (developmental).

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;
- Complete all requirements for the master of arts degree;
- Complete at least one year of psychology laboratory work and three semesters as a teaching or research assistant in peace studies and psychology;
- Complete both a practicum and an internship as appropriate (clinical psychology track);

- Submit application(s) for external funding for scholarly research;
- Submit an article for external peer review; and
- Defend and submit to the Graduate School a dissertation of original research.

Students in the peace studies and psychology program complete one set of comprehensive exams in peace studies and the preliminary examinations in psychology.

For additional details regarding course, examination, and service requirements, please consult the Kroc Institute Ph.D. student manual.

Ph.D. in Peace Studies and Sociology

Degree Requirements	
GPA Credits	48 credits
Total Credits	60 credits
Other	Admission to doctoral candidacy
	Foreign language requirement
	Comprehensive examination (peace studies)
	Comprehensive examination (sociology)
	Master's thesis
	Dissertation proposal defense
	Doctoral dissertation

The Ph.D. in peace studies and sociology typically requires a minimum of 18 letter-graded course credits in peace studies and 30 letter-graded course credits in sociology.

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;
- Complete at least five semesters of service as a research or teaching assistant in peace studies and sociology;
- Submit application(s) for external funding for scholarly research;
- Submit an 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 exams in peace studies and in sociology.

For additional details regarding course, examination, and service requirements, please consult the Kroc Institute Ph.D. student manual.

Ph.D. in Peace Studies and Theology

Degree Requirements	
GPA Credits	42 credits
Total	60 credits
Other	Admission to doctoral candidacy
	Foreign language requirement
	Comprehensive examination (peace studies)
	Comprehensive examination (theology)
	Dissertation proposal defense
	Doctoral dissertation

The Ph.D. in peace studies and theology typically requires a minimum of 18 letter-graded course credits in peace studies and 24 letter-graded course credits in theology.

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; additional language study may be required by the specialty in theology;
- Complete at least five semesters of service as a research or teaching assistant in peace studies and theology;
- Submit application(s) for external funding for scholarly research;
- Submit an 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 exams in peace studies and in theology. For additional details regarding course, examination, and service requirements, please consult the Kroc Institute Ph.D. student manual.

Sustainable Development

Associate Director of Graduate Recruitment and Admissions:
Christian Lehman

Director of Graduate Studies:
Santosh Gautam

Telephone: 574-631-0934
Fax: 574-631-4241

Location: 1010 Jenkins Nanovic Hall
E-mail: keough-admissions@nd.edu
Web: https://keough.nd.edu/academics/phd-program/ph-d-in-sustainable-development/

The Doctor of Philosophy

The University of Notre Dame's doctoral program in sustainable development is a STEM-designated program preparing scholars to tackle critical global challenges. The program's interdisciplinary approach combines world-class mentorship, engaged scholarship, and policy-relevant research to address pressing issues like climate change mitigation and adaptation, environmental governance, and development policy.

Inspired by Catholic social teaching and Pope Francis' Laudato Si', the program is dedicated to improving human well-being, especially among the most vulnerable, while safeguarding the planet. Students join a vibrant community of scholars and practitioners actively shaping international policy and practice.

Ph.D. in Sustainable Development

Degree Requirements	
GPA Credits	36 credits
Total Credits	66 credits
Other	Admission to doctoral candidacy
	Oral qualifying examination
	Candidacy examination
	Dissertation defense
	Doctoral dissertation

Doctoral students in the sustainable development program are expected to complete 15 credits of core coursework consisting of five required courses taken in the first two years designed to establish a shared foundation and ensure interdisciplinary competency:

- Sustainable Development: Organizing the Field – Explore key frameworks and empirical evidence in sustainable development.
- Decisions and Behavior in Development – Investigate individual decision-making in the Global South.
- Sustainable Development Research Methods – Learn quantitative and qualitative approaches for impactful research.
- Seminar on Research for Impact – Enhance skills for policy-relevant research communication.
- Sustainable Development PhD Seminar – Prepare for qualifying exams and dissertation work.

In addition to the required core courses, students complete 21 credits of electives, including at least nine in advanced research methods from across Notre Dame's departments.

Milestones

Students are expected to complete coursework requirements within the first two years of the program. By the end of the second year, the student should successfully pass the oral qualifying exam to demonstrate mastery of core concepts and their area of specialty.

Beginning in the third year, the focus shifts exclusively to dissertation research. By the end of year three, the student should present and defend their dissertation proposal to advance to doctoral candidacy.

By the end of the fifth year, doctoral candidates should plan to defend and submit their completed dissertation.

For additional details regarding course, examination, and service requirements, please consult the program's student manual.

Mendoza College of Business

IT, Analytics, and Operations

Chair:
Corey Angst

Director of Graduate Studies:
Ahmed Abbasi

Telephone: 574-631-5212
Location: 360 Mendoza College of Business
E-mail: aabbasi@nd.edu
Web: https://mendoza.nd.edu/research-faculty/academic-departments/phd-analytics/

The Master of Science in Business

Degree Requirements	
GPA Credits	36 credits
Total	36 credits
Other	Admission to master's candidacy
	6 credits of quantitative courses
	Satisfactory participation in the scholarly writing of a journal-worthy manuscript submission

The master of science in business (MSB) is a non-terminal degree awarded to students who wish to withdraw from the analytics Ph.D. program after their second year, and who have completed the necessary coursework, demonstrated engagement in research, and met University requirements for a master of science degree.

The director of graduate studies will evaluate the student's record and participation in the scholarly writing of a journal-worthy manuscript submission, in conjunction with the student's adviser, to determine eligibility for the master of science in business.

This degree is not awarded en route to the Ph.D., nor is it available to students who transfer to another doctoral program. Instead, it offers a formal recognition of significant academic progress for students whose paths shift away from doctoral completion.

The Doctor of Philosophy

Degree Requirements	
GPA Credits	42 credits
Total	60 credits
Other	Admission to doctoral candidacy
	Comprehensive examination or paper
	Dissertation defense
	Doctoral dissertation

The Ph.D. program in analytics is designed to develop research-focused thought leaders within the realm of business.

Students are required to complete a minimum of 60 total credits beyond the bachelor's degree, including 42 credits of letter-graded GPA credits.

During the first two years of study, students are expected to concentrate on coursework consistent with the following model:

- **ITAO Content/Method Seminars:** This set of core courses within the department is focused primarily on foundational analytics theories and methods, and contemporary topics.
- **Methods Courses:** Four courses in statistics, econometrics, and data science.
- **Ethics Course:** One additional course in the ethics of technology.
- **Secondary Area of Study:** Students will complete a short set of course (typically three or four) focused on an area that is complementary to their analytics work. Examples may include computer science, economics, management, mathematics, quantitative psychology, or statistics.

At the end of their first year, students are expected to submit a paper, with guidance from their faculty mentor(s), intended to demonstrate their abil-

ity to produce high-quality scholarly manuscripts, in preparation to submit research projects for publication. The paper will be presented to a group of faculty from the department (including faculty mentors and first-year seminar course instructors).

At the end of the student's second year, they must complete a comprehensive exam and/or lead-author paper to demonstrate mastery of the material covered in departmental seminars.

Students who do not successfully complete the comprehensive exam and/or paper requirement may have the option of leaving the program with a professional/non-research master's degree via one of the terminal master's programs within the college.

Beginning in the third year, the student will typically concentrate on research and writing, with the expectation they will defend their dissertation proposal and be admitted to doctoral candidacy status in their fourth year.

Students will gain valuable teaching experience during their third and fourth years in the program.

For additional details regarding course, examination, and service requirements, consult the program handbook.

Management and Organization

Chair:
Ann Tenbrunsel

Director of Doctoral Studies:
Jason Colquitt

Telephone: 574-631-6078
Location: 363 Mendoza College of Business
E-mail: jcolquit@nd.edu
Web: https://mendoza.nd.edu/research-faculty/academic-departments/phd-management-organization/

The Master of Science in Business

Degree Requirements	
GPA Credits	36 credits
Total	36 credits
Other	Admission to master's candidacy
	6 credits of quantitative courses
	Satisfactory participation in the scholarly writing of a journal-worthy manuscript submission

The master of science in business (MSB) is a non-terminal degree awarded to students who wish to withdraw from the analytics Ph.D. program after their second year, and who have completed the necessary coursework, demonstrated engagement in research, and met University requirements for a master of science degree.

The director of graduate studies will evaluate the student's record and participation in the scholarly writing of a journal-worthy manuscript submission, in conjunction with the student's adviser, to determine eligibility for the master of science in business.

This degree is not awarded en route to the Ph.D., nor is it available to students who transfer to another doctoral program. Instead, it offers a formal recognition of significant academic progress for students whose paths shift away from doctoral completion.

The Doctor of Philosophy

Degree Requirements	
GPA Credits	36 credits
Total	60 credits
Other	Admission to doctoral candidacy
	Comprehensive examination
	Dissertation defense
	Doctoral dissertation

The Ph.D. program management is designed to develop research-focused thought leaders within the areas of organizational behavior, strategy, and entrepreneurship.

Students are required to complete a minimum of 60 total credits beyond the bachelor's degree, including 36 hours of letter-graded GPA credits.

During the first two years of study, students will split their attention between foundational coursework in management theory, methods, and strategies, and research projects.

In the summer following the second year, students are expected to complete their comprehensive exams to demonstrate mastery of the material covered in their coursework.

Students who do not successfully complete the comprehensive exam requirement may have the option of leaving the program with a professional/non-research master's degree via one of the terminal master's programs within the college.

Beginning in the third year, the student will typically concentrate on research and writing, with the expectation that they will defend their dissertation proposal and be admitted to doctoral candidacy status near the end of their fourth year.

Students will gain valuable teaching experience during their third and fourth years in the program.

For additional details regarding course, examination, and service requirements, consult the program handbook.

Tenured and Tenure-Track Faculty

Students in the Graduate School traditionally work with a dissertation or thesis adviser or co-advisers from the tenured and tenure-track faculty from their program. Following is a list of active tenured and tenure-track faculty associated with Graduate School programs within the College of Arts and Letters, College of Engineering, College of Science, Keough School for Global Affairs, and Mendoza College of Business for academic year 2025–2026.

Abbasi, Ahmed N., Professor in the Department of IT, Analytics and Operations

Abdulsater, Hussein A., Associate Professor in the Department of Classics

Abram, Christopher P., Professor in the Department of English

Acosta Serrano, Alvaro F., Professor in the Department of Biological Sciences

Adams, Ellis A., Associate Professor in the Keough School of Global Affairs

Adams, Katrina, Assistant Professor in the Department of Biological Sciences

Agrawal, Arun, Professor in the Keough School of Global Affairs

Aguilar, Emiliano, Assistant Professor in the Department of History

Ahn, Tan, Associate Professor in the Department of Physics and Astronomy

Albahari, Maurizio, Associate Professor in the Department of Anthropology

Alexandrou, Alex Himonas, Professor in the Department of Mathematics

Alvarado, Steven E., Associate Professor in the Department of Sociology

Anatolios, Khaled, Professor in the Department of Theology

Anderson, Thomas F., Professor in the Department of Romance Languages and Literatures

Andersson, Krister, Professor in the Keough School of Global Affairs

Angst, Corey M., Professor in the Department of IT, Analytics and Operations

Antsaklis, Panos J., Professor in the Department of Electrical Engineering

Appleby, Robert S., Professor in the Keough School of Global Affairs

Aprahamian, Ani, Professor in the Department of Physics and Astronomy

Archie, Elizabeth A., Professor in the Department of Biological Sciences

Asadi, Sima, Assistant Professor in the Department of Chemical and Biomolecular Engineering

Ashfeld, Brandon L., Professor in the Department of Chemistry and Biochemistry

Astell, Ann W., Professor in the Department of Theology

Audi, Robert, Professor in the Department of Philosophy

Avvakumov, Yury P., Associate Professor in the Department of Theology

Azhar, Feraz, Assistant Professor in the Department of Philosophy

Baker, Brian M., Professor in the Department of Chemistry and Biochemistry

Ball, Christopher G., Associate Professor in the Department of Anthropology

Balsara, Dinshaw S., Professor in the Department of Physics and Astronomy

Bardayan, Daniel W., Professor in the Department of Physics and Astronomy

Barnett, Zachary A., Assistant Professor in the Department of Philosophy

Baron, Christopher A., Associate Professor in the Department of Classics

Barone, Maria V., Assistant Professor in the Department of Economics

Barr, Colin C., Professor in the Keough School of Global Affairs

Barron, Katrina D., Associate Professor in the Department of Mathematics

Baumeister, Christiane, Professor in the Department of Economics

Bays, Timothy J., Associate Professor in the Department of Philosophy

Beall, Jeffrey C., Professor in the Department of Philosophy

Beatty, Edward N., Professor in the Department of History

Becker, Christine A., Associate Professor in the Department of Film, Television, and Theatre

Bederman, Gail, Associate Professor in the Department of History

Behrens, Mark J., Professor in the Department of Mathematics

Beihammer, Alexander D., Professor in the Department of History

Belcher, Kimberly H., Associate Professor in the Department of Theology

Belinda, Casher D., Assistant Professor in the Department of Management and Organization

Berends, Mark, Professor in the Department of Sociology

Berente, Nicholas T., Professor in the Department of IT, Analytics and Operations

Bergeman, Cindy S., Professor in the Department of Psychology

Berke, Melissa, Associate Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Bernstein, Gary H., Professor in the Department of Electrical Engineering

Bertanha, Marinho A., Associate Professor in the Department of Economics

Betz, John R., Associate Professor in the Department of Theology

Beyerlein, Kraig, Associate Professor in the Department of Sociology

Bibby, Kyle J., Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Bilgicer, Zihni B., Professor in the Department of Chemical and Biomolecular Engineering

Bilson Darku, Francis, Assistant Professor in the Department of IT, Analytics and Operations

Bird, Ashlee H., Assistant Professor in the Department of American Studies

Blagg, Brian S., Professor in the Department of Chemistry and Biochemistry

Blanchette, Patricia A., Professor in the Department of Philosophy

Blum, Susan D., Professor in the Department of Anthropology

Boezio, Sara, Assistant Professor in the Department of Romance Languages and Literatures

Bohn, Paul W., Professor in the Department of Chemical and Biomolecular Engineering

Bohrer, Ashley J., Assistant Professor in the Keough School of Global Affairs

Bolivar Nieto, Edgar A., Assistant Professor in the Department of Aerospace and Mechanical Engineering

Bolster, Diogo, Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Bolten, Catherine E., Professor in the Keough School of Global Affairs

Bordogna, Francesca M., Associate Professor in the Program of Liberal Studies

Boyd, Sunny K., Professor in the Department of Biological Sciences

Bremyer, Dionne I., Associate Professor in the Department of English

Brewer, Lindsey T., Assistant Professor in the Department of Air Science

Brewick, Patrick T., Assistant Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Brockmole, James R., Professor in the Department of Psychology

Brodeur, Maxime, Associate Professor in the Department of Physics and Astronomy

Brown, Jeremy P., Assistant Professor in the Department of Theology

Brown, Jessica A., Associate Professor in the Department of Chemistry and Biochemistry

Brown, Seth N., Professor in the Department of Chemistry and Biochemistry

Brown, Terrance T., Assistant Professor in the Department of Film, Television, and Theatre

Bruening, Merlin L., Professor in the Department of Chemical and Biomolecular Engineering

Buckles, Kasey S., Professor in the Department of Economics

Bugyis, Katie A., Associate Professor in the Program of Liberal Studies

Burks, Gabriel R., Assistant Professor in the Department of Chemical and Biomolecular Engineering

Burman, Thomas E., Professor in the Department of History

Burns, Peter C., Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Busenbark, John, Associate Professor in the Department of Management and Organization

Buzas, Zoltan, Associate Professor in the Keough School of Global Affairs

Cachey, Theodore J., Professor in the Department of Romance Languages and Literatures

Cai, Junhui, Assistant Professor in the Department of IT, Analytics and Operations

Cai, Liang, Associate Professor in the Department of History

Camden, Jon P., Professor in the Department of Chemistry and Biochemistry

Campbell, David E., Professor in the Department of Political Science

Campbell, Jeffrey R., Professor in the Department of Economics

Cao, Ningyuan, Assistant Professor in the Department of Electrical Engineering

Caprio, Mark A., Professor in the Department of Physics and Astronomy

Carbonaro, William J., Professor in the Department of Sociology

Carley, Jason C., Assistant Professor in the Department of Art, Art History, and Design

Carlson, Clinton, Associate Professor in the Department of Art, Art History, and Design

Carmichael, Ian C., Professor in the Department of Chemistry and Biochemistry

Carpenter, Ryan W., Assistant Professor in the Department of Psychology

Castellino, Francis J., Professor in the Department of Chemistry and Biochemistry

Castruccio, Stefano, Associate Professor in the Department of Applied and Computational Mathematics and Statistics

Caswell, Pierre-Elliot, Assistant Professor in the Department of Romance Languages and Literatures

Cavadini, John C., Professor in the Department of Theology

Chambers, Erin W., Professor in the Department of Computer Science and Engineering

Champion, Matthew M., Associate Professor in the Department of Chemistry and Biochemistry

Champion, Patricia A., Professor in the Department of Biological Sciences

Chang, Hsueh-Chia, Professor in the Department of Chemical and Biomolecular Engineering

Chang, Huibin, Assistant Professor in the Department of Aerospace and Mechanical Engineering

Chavez, Alex E., Associate Professor in the Department of Anthropology

Chawla, Nitesh V., Professor in the Department of Computer Science and Engineering

Chen, Danny Z., Professor in the Department of Computer Science and Engineering

Cheng, Tingyu, Assistant Professor in the Department of Computer Science and Engineering

Cheng, Ying, Professor in the Department of Psychology

Chesson, Meredith S., Professor in the Department of Anthropology

Chiang, David, Associate Professor in the Department of Computer Science and Engineering

Chisum, Jonathan D., Associate Professor in the Department of Electrical Engineering

Cholak, Peter A., Professor in the Department of Mathematics

Chowrimootoo, Christopher, Associate Professor in the Program of Liberal Studies

Christiano, Kevin J., Associate Professor in the Department of Sociology

Chua, Kristine Joy C., Assistant Professor in the Department of Anthropology

Clairmont, David A., Associate Professor in the Department of Theology

Clark, Patricia L., Professor in the Department of Chemistry and Biochemistry

Clark, Richard T., Assistant Professor in the Department of Political Science

Clements, Caitlin C., Assistant Professor in the Department of Psychology

Cloutier, David, Professor in the Department of Theology

Cohen, Alix A., Professor in the Department of Philosophy

Coleman, Anne G., Associate Professor in the Department of American Studies

Coleman, Jon T., Professor in the Department of History

Collins, Austin I., Professor in the Department of Art, Art History, and Design

Collins, James M., Professor in the Department of Film, Television, and Theatre

Collins, Susan, Associate Professor in the Department of Political Science

Collinson, Robert A., Assistant Professor in the Department of Economics

Collon, Philippe A., Professor in the Department of Physics and Astronomy

Colquitt, Jason A., Professor in the Department of Management and Organization

Conrado, Ann-Marie, Associate Professor in the Department of Art, Art History, and Design

Copeland, Molly, Assistant Professor in the Department of Sociology

Coppedge, Michael J., Professor in the Department of Political Science

Corcelli, Steven A., Professor in the Department of Chemistry and Biochemistry

Cordova, Abby, Associate Professor in the Keough School of Global Affairs

Corke, Thomas C., Professor in the Department of Aerospace and Mechanical Engineering

Cortez, David, Assistant Professor in the Department of Political Science

Cory, Therese C., Associate Professor in the Department of Philosophy

Couder, Manoel J., Associate Professor in the Department of Physics and Astronomy

Coverdale, Tyler C., Assistant Professor in the Department of Biological Sciences

Crant, J. Michael, Professor in the Department of Management and Organization

Crepp, Justin, Associate Professor in the Department of Physics and Astronomy

Crippa, Paola, Assistant Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Cronin, Christopher J., Associate Professor in the Department of Economics

Cross, Richard A., Professor in the Department of Philosophy

Culligan, Patricia J., Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Cummings, Edward M., Professor in the Department of Psychology

Cummings, Kathleen S., Professor in the Department of American Studies

Cutter, Brian C., Associate Professor in the Department of Philosophy

Czajka, Adam M., Associate Professor in the Department of Computer Science and Engineering

D'Souza-Schorey, Crislyn, Professor in the Department of Biological Sciences

da Silva Santos, Joanna Cecilia, Assistant Professor in the Department of Computer Science and Engineering

Daen, Laurel, Assistant Professor in the Department of American Studies

Dalderop, Jeroen W., Assistant Professor in the Department of Economics

DasGupta, Saurja, Assistant Professor in the Department of Chemistry and Biochemistry

Davis, Darren W., Professor in the Department of Political Science

Deak, John, Associate Professor in the Department of History

Del Valle, Juan, Professor in the Department of Chemistry and Biochemistry

Delgado, Antonio, Professor in the Department of Physics and Astronomy

Deneen, Patrick, Professor in the Department of Political Science

Desch, Michael, Professor in the Department of Political Science

Devaraj, Sarvanan, Professor in the Department of IT, Analytics and Operations

Diller, Jeffrey A., Professor in the Department of Mathematics

Dinkelman, Taryn L., Associate Professor in the Department of Economics

Dobrinen, Natasha, Professor in the Department of Mathematics

Dochuk, Darren T., Professor in the Department of History

Doran, Kirk B., Associate Professor in the Department of Economics

Doudrick, Kyle W., Associate Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Dowd, Robert A., Professor in the Department of Political Science

Dowling, Alexander W., Associate Professor in the Department of Chemical and Biomolecular Engineering

Duffield, Giles E., Associate Professor in the Department of Biological Sciences

Duffy, John M., Professor in the Department of English

Dumont, Stephen D., Professor in the Department of Philosophy

Dyer, Matthew J., Professor in the Department of Mathematics

Eberhard, Kathleen M., Associate Professor in the Department of Psychology

Eisenman, Joshua, Professor in the Keough School of Global Affairs

Elliott, Edward J., Associate Professor in the Department of Philosophy

Eskildsen, Morten R., Professor in the Department of Physics and Astronomy

Estefan Davila, Manuel Alejandro, Assistant Professor in the Keough School of Global Affairs

Eubank, Nathan, Associate Professor in the Department of Theology

Evans, William N., Professor in the Department of Economics

Evens, Samuel R., Professor in the Department of Mathematics

Fatimah, Haya, Assistant Professor in the Department of Psychology

Fay, Patrick J., Professor in the Department of Electrical Engineering

Feder, Jeffrey L., Professor in the Department of Biological Sciences

Fein, Jeremy B., Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Ferdig, Michael T., Professor in the Department of Biological Sciences

Ferdowsian, Andrew, Assistant Professor in the Department of Economics

Fernandez-Armesto, Felipe, Professor in the Department of History

Fernando, Harindra J., Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Fields, Laura J., Associate Professor in the Department of Physics and Astronomy

Flores Mireles, Ana L., Associate Professor in the Department of Biological Sciences

Flynn, Patrick J., Professor in the Department of Computer Science and Engineering

Forro, Laszlo, Professor in the Department of Physics and Astronomy

Forsgren, La Donna L., Associate Professor in the Department of Film, Television, and Theatre

Foyevtsova, Kateryna, Assistant Professor in the Department of Physics and Astronomy

Fraga, Luis R., Professor in the Department of Political Science

Franks, Curtis D., Associate Professor in the Department of Philosophy

Freel, Charles M., Professor in the Department of Air Science

Fu, Guosheng, Assistant Professor in the Department of Applied and Computational Mathematics and Statistics

Fu, Kaiyu, Assistant Professor in the Department of Chemistry and Biochemistry

Gallagher, Mary E., Professor in the Keough School of Global Affairs

Galvin, David, Professor in the Department of Mathematics

Gamboa, Laura, Assistant Professor in the Keough School of Global Affairs

Garcia-Romero, Anne, Professor in the Department of Film, Television, and Theatre

Garg, Umesh, Professor in the Department of Physics and Astronomy

Garibaldi, Korey G., Associate Professor in the Department of American Studies

Garnavich, Peter M., Professor in the Department of Physics and Astronomy

Gasior, Kelsey, Assistant Professor in the Department of Applied and Computational Mathematics and Statistics

Gautam, Santosh K., Associate Professor in the Keough School of Global Affairs

Gekhtman, Michael, Professor in the Department of Mathematics

Gettler, Lee T., Professor in the Department of Anthropology

Gezelter, J. Daniel, Professor in the Department of Chemistry and Biochemistry

Ghimire, Nirmal, Associate Professor in the Department of Physics and Astronomy

Gholz, Charles E., Associate Professor in the Department of Political Science

Ghosh, Monisha, Professor in the Department of Electrical Engineering

Gibson, Bradley S., Professor in the Department of Psychology

Gibson, David, Associate Professor in the Department of Sociology

Gitenstein, Sarah B., Assistant Professor in the Department of Film, Television, and Theatre

Glowacki, Donna M., Associate Professor in the Department of Anthropology

Go, David B., Professor in the Department of Aerospace and Mechanical Engineering

Golitko, Mark L., Assistant Professor in the Department of Anthropology

Gondoli, Dawn M., Professor in the Department of Psychology

Goodson, Holly V., Professor in the Department of Chemistry and Biochemistry

Goodwine, John W., Professor in the Department of Aerospace and Mechanical Engineering

Goransson, Johannes, Professor in the Department of English

Gordeyev, Stanislav V., Associate Professor in the Department of Aerospace and Mechanical Engineering

Gould, Andrew C., Associate Professor in the Department of Political Science

Goulding, Robert D., Associate Professor in the Program of Liberal Studies

Graham, Erin R., Associate Professor in the Keough School of Global Affairs

Graubart, Karen, Professor in the Department of History

Green, Barbara J., Professor in the Department of English

Gregory, Brad S., Professor in the Department of History

Gresik, Thomas A., Professor in the Department of Economics

Griffin, Patrick N., Professor in the Department of History

Grillo, Jennifer H., Associate Professor in the Department of Theology

Grillo, Luca, Professor in the Department of Classics

Groody, Daniel G., Professor in the Department of Theology

Grove, Kevin G., Associate Professor in the Department of Theology

Grubert, Emily A., Associate Professor in the Keough School of Global Affairs

Guo, Li, Professor in the Department of Classics

Guo, Ruilan, Professor in the Department of Chemical and Biomolecular Engineering

Gurel, Perin, Associate Professor in the Department of American Studies

Gursky, Matthew J., Professor in the Department of Mathematics

Gustafson, Sandra M., Professor in the Department of English

Haake, Gregory P., Associate Professor in the Department of Romance Languages and Literatures

Hachen, David S., Associate Professor in the Department of Sociology

Haeffel, Gerald, Associate Professor in the Department of Psychology

Haenggi, Martin, Professor in the Department of Electrical Engineering

Haldar, Kasturi, Professor in the Department of Biological Sciences

Hall, Brian C., Professor in the Department of Mathematics

Hall, Brittany S., Assistant Professor in the Department of Management and Organization

Hall, Douglas C., Associate Professor in the Department of Electrical Engineering

Hall, Matthew E., Professor in the Department of Political Science

Hamkins, Joel David, Professor in the Department of Philosophy

Hamlet, Alan, Associate Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Han, Eojin, Assistant Professor in the Department of IT, Analytics and Operations

Han, Qing, Professor in the Department of Mathematics

Harden, Jeffrey J., Professor in the Department of Political Science

Harris, Susan C., Professor in the Department of English

Hartland, Gregory V., Professor in the Department of Chemistry and Biochemistry

Haskins, Anna R., Associate Professor in the Department of Sociology

Hauenstein, Jonathan D., Professor in the Department of Applied and Computational Mathematics and Statistics

Hauknes, Marius B., Assistant Professor in the Department of Art, Art History, and Design

Hayat, Maira, Assistant Professor in the Keough School of Global Affairs

Heller, Ben A., Associate Professor in the Department of Romance Languages and Literatures

Helquist, Paul, Professor in the Department of Chemistry and Biochemistry

Hernandez, David R., Associate Professor in the Department of Classics

Hicks, Jason C., Professor in the Department of Chemical and Biomolecular Engineering

Hildreth, Michael D., Professor in the Department of Physics and Astronomy

Hilkert, M. Catherine, Professor in the Department of Theology

Hill, Kaylin E., Assistant Professor in the Department of Psychology

Hind, Richard K., Professor in the Department of Mathematics

Hinkle, Christopher, Professor in the Department of Electrical Engineering

Hirschfeld, Mary L., Associate Professor in the Department of Theology

Hixon, Amy E., Associate Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Hobbins, Daniel B., Associate Professor in the Department of History

Hochwald, Bertrand M., Professor in the Department of Electrical Engineering

Hoelzlein, Matthias M., Assistant Professor in the Department of Economics

Hoffman, Anthony J., Professor in the Department of Electrical Engineering

Hoffman, Michael T., Associate Professor in the Department of Political Science

Holland, Peter D., Professor in the Department of Film, Television, and Theatre

Hollocher, Hope, Associate Professor in the Department of Biological Sciences

Hou, Mengxue, Assistant Professor in the Department of Electrical Engineering

Howard, Don A., Professor in the Department of Philosophy

Howard, Scott S., Associate Professor in the Department of Electrical Engineering

Howk, Jay C., Professor in the Department of Physics and Astronomy

Hu, Bei, Professor in the Department of Applied and Computational Mathematics and Statistics

Hu, Xiaobo, Professor in the Department of Computer Science and Engineering

Huang, Edwin, Assistant Professor in the Department of Physics and Astronomy

Huang, Jane, Professor in the Department of Computer Science and Engineering

Huang, Yih-Fang, Professor in the Department of Electrical Engineering

Hughes, Caroline S., Professor in the Joan B. Kroc Institute for International Peace Studies

Hui, Victoria T., Associate Professor in the Department of Political Science

Hungerman, Daniel M., Professor in the Department of Economics

Hunt, Eileen M., Professor in the Department of Political Science

Huynh, Jennifer A., Assistant Professor in the Department of American Studies

Hyde, David R., Professor in the Department of Biological Sciences

Iluc, Vlad M., Associate Professor in the Department of Chemistry and Biochemistry

Isserow, Jessica M., Associate Professor in the Department of Philosophy

Iyer, Lakshmi, Professor in the Department of Economics

Jacob, Marc S., Assistant Professor in the Keough School of Global Affairs

Jaffe, Adam, Assistant Professor in the Department of Chemistry and Biochemistry

Jana, Soham, Assistant Professor in the Department of Applied and Computational Mathematics and Statistics

Janko, Boldizsar, Professor in the Department of Physics and Astronomy

Jaros, Kyle, Associate Professor in the Keough School of Global Affairs

Jarvis, Katie L., Associate Professor in the Department of History

Jauregui, Carlos A., Professor in the Department of Romance Languages and Literatures

Javeline, Debra, Professor in the Department of Political Science

Jenkins, John I., Professor in the Department of Philosophy

Jessop, Colin P., Professor in the Department of Physics and Astronomy

Jiang, Meng, Associate Professor in the Department of Computer Science and Engineering

Johnson-Roullier, Cyraina E., Associate Professor in the Department of English

Johnson, Ian O., Associate Professor in the Department of History

Johnson, Robert C., Associate Professor in the Department of Economics

Joshi, Siddharth, Assistant Professor in the Department of Computer Science and Engineering

Joshua, Essaka, Professor in the Department of English

Juliano, Thomas, Associate Professor in the Department of Aerospace and Mechanical Engineering

Jumper, Eric J., Professor in the Department of Aerospace and Mechanical Engineering

Jung, Taeho, Associate Professor in the Department of Computer Science and Engineering

Junge Ruhland, Johannes Michael, Assistant Professor in the Department of Romance Languages and Literatures

Kaboski, Joseph P., Professor in the Department of Economics

Kadattur Vasudevan, Shuddhodan, Assistant Professor in the Department of Mathematics

Kamat, Prashant V., Professor in the Department of Chemistry and Biochemistry

Kandel, S. Alex, Professor in the Department of Chemistry and Biochemistry

Kareem, Ahsan, Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Karnes, Michelle A., Professor in the Department of English

Karp, Steven N., Assistant Professor in the Department of Mathematics

Katongole, Emmanuel, Professor in the Keough School of Global Affairs

Kaufman, Asher, Professor in the Keough School of Global Affairs

Kelley, Kenneth, Professor in the Department of IT, Analytics and Operations

Kennedy, Andrew B., Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Keys, Mary M., Professor in the Department of Political Science

Khan, Mehak Faisal, Assistant Professor in the Department of English

Khandelwal, Kapil, Associate Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Kijewski-Correa, Tracy L., Professor in the Keough School of Global Affairs

Kilbane, Matthew M., Assistant Professor in the Department of English

Kim, Dahjin, Assistant Professor in the Keough School of Global Affairs

Kim, Erynn J., Assistant Professor in the Department of Classics

Kim, Hankyeol, Assistant Professor in the Department of Film, Television, and Theatre

Kirby, Evan, Associate Professor in the Department of Physics and Astronomy

Kjuchukova, Alexandra A., Assistant Professor in the Department of Mathematics

Knoppers, Laura L., Professor in the Department of English

Koesel, Karrie J., Associate Professor in the Department of Political Science

Kogge, Peter M., Professor in the Dean's Office, College of Engineering

Kola, Ijeoma B., Assistant Professor in the Department of History

Kolda, Christopher F., Professor in the Department of Physics and Astronomy

Koll, Elisabeth, Professor in the Department of History

Kollman, Paul V., Associate Professor in the Department of Theology

Kong, Fanxin, Assistant Professor in the Department of Computer Science and Engineering

Kormylo, Cameron F., Assistant Professor in the Department of IT, Analytics and Operations

Kotowski, Maciej, Associate Professor in the Department of Economics

Kourany, Janet A., Professor in the Department of Philosophy

Krostenko, Brian A., Associate Professor in the Department of Classics

Kruger, Liam, Assistant Professor in the Department of English

Kuijt, Ian, Professor in the Department of Anthropology

Kuno, Masaru K., Professor in the Department of Chemistry and Biochemistry

Kurama, Yahya C., Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Lahr, Jason R., Associate Professor in the Department of Art, Art History, and Design

Lalor, John P., Assistant Professor in the Department of IT, Analytics and Operations

Lander, Jesse M., Associate Professor in the Department of English

Landers, Robert G., Professor in the Department of Aerospace and Mechanical Engineering

Laneman, J. Nicholas, Professor in the Department of Electrical Engineering

Langenkamp, Amy G., Associate Professor in the Department of Sociology

Lannon, Kevin, Professor in the Department of Physics and Astronomy

Lantigua, David M., Associate Professor in the Department of Theology

Lara Zendejas, Rodrigo, Assistant Professor in the Department of Art, Art History, and Design

Layman, Geoffrey, Professor in the Department of Political Science

Leavitt, Charles L., Associate Professor in the Department of Romance Languages and Literatures

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Lehner, Ulrich L., Professor in the Department of Theology

Leighton, David T., Professor in the Department of Chemical and Biomolecular Engineering

Lemmon, Michael D., Professor in the Department of Electrical Engineering

Lent, Craig S., Professor in the Department of Electrical Engineering

Leyerle, Blake, Professor in the Department of Theology

Li, Jiajun, Assistant Professor in the Department of Computer Science and Engineering

Li, Jianneng, Assistant Professor in the Department of Biological Sciences

Li, Jun, Professor in the Department of Applied and Computational Mathematics and Statistics

Lieber, Ethan, Associate Professor in the Department of Economics

Lieberman, Marya, Professor in the Department of Chemistry and Biochemistry

Lim, Joshua H., Assistant Professor in the Department of Theology

Lin, Hai, Professor in the Department of Electrical Engineering

Lincicum, David N., Associate Professor in the Department of Theology

Lindley, Daniel A., Associate Professor in the Department of Political Science

Lindsay, Alan E., Associate Professor in the Department of Applied and Computational Mathematics and Statistics

Littlepage, Laurie E., Associate Professor in the Department of Chemistry and Biochemistry

Liu, Fang, Professor in the Department of Applied and Computational Mathematics and Statistics

Liu, Lei, Associate Professor in the Department of Electrical Engineering

Lombardo, Nicholas, Associate Professor in the Department of Theology

Lopez, Martina A., Professor in the Department of Art, Art History, and Design

LoSecco, John M., Professor in the Department of Physics and Astronomy

Lu, Xin, Associate Professor in the Department of Biological Sciences

Lund, Joshua K., Professor in the Department of Romance Languages and Literatures

Luo, Tengfei, Professor in the Department of Aerospace and Mechanical Engineering

Lyandres, Semion, Professor in the Department of History

Ma, Jingcheng, Assistant Professor in the Department of Aerospace and Mechanical Engineering

MacArt, Jonathan F., Assistant Professor in the Department of Aerospace and Mechanical Engineering

Machan, Tim W., Professor in the Department of English

Maginn, Edward J., Professor in the Department of Chemical and Biomolecular Engineering

Mainwaring, Madison B., Assistant Professor in the Department of Romance Languages and Literatures

Mainwaring, Scott P., Professor in the Department of Political Science

Malloy, Edward A., Professor in the Department of Theology

Mannor, Michael J., Associate Professor in the Department of Management and Organization

Marcantonio, Richard A., Assistant Professor in the Keough School of Global Affairs

Marcus, Sara, Assistant Professor in the Department of English

Mark, Nelson, Professor in the Department of Economics

Martin, Adam, Professor in the Department of Physics and Astronomy

Martin, Alexander, Professor in the Department of History

Martin, Jennifer N., Associate Professor in the Program of Liberal Studies

Mast, Evan E., Assistant Professor in the Department of Economics

Mastorakis, Spyridon, Assistant Professor in the Department of Computer Science and Engineering

Mathews, Grant J., Professor in the Department of Physics and Astronomy

Matous, Karel, Professor in the Department of Aerospace and Mechanical Engineering

Matovina, Timothy M., Professor in the Department of Theology

Mattison, William C., Professor in the Department of Theology

Maziar, Christine M., Professor in the Department of Electrical Engineering

Mazurek, Elizabeth F., Associate Professor in the Department of Classics

McClarren, Ryan G., Professor in the Department of Aerospace and Mechanical Engineering

McClintock, Elizabeth A., Associate Professor in the Department of Sociology

McCrea, Barry, Professor in the Department of English

McCready, Mark J., Professor in the Department of Chemical and Biomolecular Engineering

McDaniel, Kristopher N., Professor in the Department of Philosophy

McDonnell, Erin, Associate Professor in the Department of Sociology

McDowell, Mary A., Professor in the Department of Biological Sciences

McGillis, Wade R., Professor in the Department of Civil and Environmental Engineering and Earth Sciences

McGinn, Paul J., Professor in the Department of Chemical and Biomolecular Engineering

McGreevy, John T., Professor in the Department of History

McKenna, Rebecca T., Associate Professor in the Department of History

McKenny, Gerald P., Professor in the Department of Theology

McLachlan, Jason S., Associate Professor in the Department of Biological Sciences

McMillan, Collin, Associate Professor in the Department of Computer Science and Engineering

McNeil, Nicole M., Professor in the Department of Psychology

McSweeney, Joyelle, Professor in the Department of English

McVeigh, Rory M., Professor in the Department of Sociology

Medvigy, David M., Associate Professor in the Department of Biological Sciences

Mejia Acosta, Jorge A., Associate Professor in the Keough School of Global Affairs

Melander, Christian C., Professor in the Department of Chemistry and Biochemistry

Menes, Orlando R., Professor in the Department of English

Menke, Brandon A., Assistant Professor in the Department of English

Meserve, Margaret H., Professor in the Department of History

Metoyer, Ronald, Professor in the Department of Computer Science and Engineering

Migliore, Juan C., Professor in the Department of Mathematics

Milenkovic, Tijana, Professor in the Department of Computer Science and Engineering

Miller-Graff, Laura E., Professor in the Department of Psychology

Miller, Daniel C., Associate Professor in the Keough School of Global Affairs

Mills, Christopher J., Assistant Professor in the Department of Economics

Minor, Heather H., Professor in the Department of Art, Art History, and Design

Mische, Ann E., Associate Professor in the Department of Sociology

Miseres, Vanesa A., Associate Professor in the Department of Romance Languages and Literatures

Misiolek, Gerard K., Professor in the Department of Mathematics

Mnev, Pavel N., Associate Professor in the Department of Mathematics

Mobashery, Shahriar, Professor in the Department of Chemistry and Biochemistry

Monta, Susannah B., Associate Professor in the Department of English

Montero, Barbara G., Professor in the Department of Philosophy

Moosa, Ebrahim, Professor in the Keough School of Global Affairs

Morel, Olivier, Associate Professor in the Department of Film, Television, and Theatre

Moreno, Marisel C., Professor in the Department of Romance Languages and Literatures

Morgan, Brittany S., Assistant Professor in the Department of Chemistry and Biochemistry

Morimoto, Mariko, Assistant Professor in the Department of Chemistry and Biochemistry

Morrell, Ernest, Professor in the Department of English

Morris, Scott C., Professor in the Department of Aerospace and Mechanical Engineering

Moss, Dana, Associate Professor in the Department of Sociology

Mouton Kinyon, Chante N., Assistant Professor in the Department of English

Muir, Cindy P., Professor in the Department of Management and Organization

Muller, Hildegund G., Associate Professor in the Department of Classics

Munoz, Vincent P., Professor in the Department of Political Science

Munzel, G. Felicitas, Professor in the Program of Liberal Studies

Murphy, Francesca A., Professor in the Department of Theology

Mustillo, Sarah A., Professor in the Department of Sociology

Mustillo, Thomas J., Associate Professor in the Keough School of Global Affairs

Myung, Nosang V., Professor in the Department of Chemical and Biomolecular Engineering

Nahlen, Bernard L., Professor in the Department of Biological Sciences

Navarro Aquino, Xavier U., Assistant Professor in the Department of English

Neal, Clive R., Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Nerenberg, Robert, Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Neretina, Svetlana, Professor in the Department of Aerospace and Mechanical Engineering

Newlands, Samuel, Professor in the Department of Philosophy

Newman, Ian D., Associate Professor in the Department of English

Nguyen, Martin Lam, Associate Professor in the Department of Art, Art History, and Design

Ni Riordain, Cliona C., Professor in the Department of English

Ni, Kai, Assistant Professor in the Department of Electrical Engineering

Nicolaescu, Liviu, Professor in the Department of Mathematics

Niebur, Glen L., Professor in the Department of Aerospace and Mechanical Engineering

Niemier, Michael T., Professor in the Department of Computer Science and Engineering

Novick, Michael T., Professor in the Department of Theology

O'Callaghan, John P., Associate Professor in the Department of Philosophy

O'Connor, David K., Professor in the Department of Philosophy

O'Regan, Cyril J., Professor in the Department of Theology

O'Sullivan, Thomas, Associate Professor in the Department of Electrical Engineering

Ocobock, Cara, Associate Professor in the Department of Anthropology

Ocobock, Paul R., Associate Professor in the Department of History

Odozor, Paulinus I., Professor in the Department of Theology

Ogden, Stephen R., Associate Professor in the Department of Philosophy

Olivera-Williams, Maria R., Professor in the Department of Romance Languages and Literatures

Omer, Atalia, Professor in the Keough School of Global Affairs

Osherson, Marc A., Assistant Professor in the Department of Physics and Astronomy

Ovaert, Timothy C., Professor in the Department of Aerospace and Mechanical Engineering

Ozkan Aydin, Yasemin, Assistant Professor in the Department of Electrical Engineering

Padilla, Jenny, Assistant Professor in the Department of Psychology

Page, Hugh R., Professor in the Department of Theology

Parent, Joseph M., Professor in the Department of Political Science

Patt, Rachel C., Assistant Professor in the Department of Art, Art History, and Design

Paulsen, Bryan D., Assistant Professor in the Department of Chemical and Biomolecular Engineering

Payne, Jessica, Professor in the Department of Psychology

Payne, Matthew T., Associate Professor in the Department of Film, Television, and Theatre

Pedraza-Martinez, Alfonso, Professor in the Department of IT, Analytics and Operations

Pellegrina, Heitor S., Assistant Professor in the Department of Economics

Peng, Jeffrey W., Associate Professor in the Department of Chemistry and Biochemistry

Perez Romero, Maria Del Pilar, Associate Professor in the Department of Biological Sciences

Perez-Linan, Anibal S., Professor in the Department of Political Science

Pfrender, Michael, Professor in the Department of Biological Sciences

Phillip, William A., Professor in the Department of Chemical and Biomolecular Engineering

Philpott, James D., Professor in the Department of Political Science

Pillay, Anand, Professor in the Department of Mathematics

Pinderhughes, Dianne M., Professor in the Department of Africana Studies

Pinzon Caicedo, Juanita, Assistant Professor in the Department of Mathematics

Piraino, Patrizio, Professor in the Keough School of Global Affairs

Planinc, Emma C., Assistant Professor in the Program of Liberal Studies

Plecnik, Mark, Assistant Professor in the Department of Aerospace and Mechanical Engineering

Polini, Claudia, Professor in the Department of Mathematics

Pomplun, Robert T., Associate Professor in the Department of Theology

Poorman, Mark L., Associate Professor in the Department of Theology

Porod, Wolfgang, Professor in the Department of Electrical Engineering

Powell, Emilia Justyna, Professor in the Department of Political Science

Powers, Joseph M, Professor in the Department of Aerospace and Mechanical Engineering

Pries, Michael J., Professor in the Department of Economics

Przybyszewski, Linda, Associate Professor in the Department of History

Ptasinska, Sylwia, Professor in the Department of Physics and Astronomy

Pugsley, Benjamin, Associate Professor in the Department of Economics

Putman, Thomas A., Professor in the Department of Mathematics

Qu, Xinxue, Assistant Professor in the Department of IT, Analytics and Operations

Radvansky, Gabriel A., Professor in the Department of Psychology

Ragland, Evan R., Associate Professor in the Department of History

Raicu, Claudiu, Professor in the Department of Mathematics

Ramirez, Ricardo, Associate Professor in the Department of Political Science

Rapple, Rory, Associate Professor in the Department of History

Rasmussen, Joel, Associate Professor in the Department of Theology

Rath, Kali P., Professor in the Department of Economics

Rea, Michael C., Professor in the Department of Philosophy

Remus, Emily A., Associate Professor in the Department of History

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

Reynolds, Gabriel S., Professor in the Department of Theology

Rhoads, Jeffrey F., Professor in the Department of Aerospace and Mechanical Engineering

Rice, Alison, Professor in the Department of Romance Languages and Literatures

Rickard, Matthew W., Assistant Professor in the Program of Liberal Studies

Riedl, Eric B., Associate Professor in the Department of Mathematics

Robichaud, Denis J., Associate Professor in the Program of Liberal Studies

Robison, Matthew K., Assistant Professor in the Department of Psychology

Rocha, Adrian V., Associate Professor in the Department of Biological Sciences

Roeber, Daniel B., Associate Professor in the Department of Philosophy

Roeder, Ryan K., Professor in the Department of Aerospace and Mechanical Engineering

Rohr, Jason, Professor in the Department of Biological Sciences

Rosato, Sebastian, Professor in the Department of Political Science

Rosenbaum, Martina, Associate Professor in the Department of Applied and Computational Mathematics and Statistics

Rosenbaum, Robert J., Associate Professor in the Department of Applied and Computational Mathematics and Statistics

Rosenberger, Matthew, Assistant Professor in the Department of Aerospace and Mechanical Engineering

Rosenblum, Michael S., Assistant Professor in the Department of Management and Organization

Rossiter, Erin, Assistant Professor in the Department of Political Science

Rudolph, James R., Assistant Professor in the Department of Art, Art History, and Design

Ruiz, Jason M., Professor in the Department of American Studies

Rush, Fred L., Professor in the Department of Philosophy

Russkikh, Marianna, Assistant Professor in the Department of Mathematics

Ryan, Maura A., Associate Professor in the Department of Theology

Sakaue, Hirotaka, Associate Professor in the Department of Aerospace and Mechanical Engineering

Salter, Nicholas, Assistant Professor in the Department of Mathematics

Sanders, Mark A., Professor in the Department of English

Santiago Tirado, Felipe H., Assistant Professor in the Department of Biological Sciences

Savoie, Brett, Professor in the Department of Chemical and Biomolecular Engineering

Schaefer, Jennifer L., Associate Professor in the Department of Chemical and Biomolecular Engineering

Schafer, Zachary T., Associate Professor in the Department of Biological Sciences

Scherz, China R., Professor in the Keough School of Global Affairs

Scherz, Paul J., Professor in the Department of Theology

Scheve, Kenneth F., Professor in the Department of Political Science

Schiavazzi, Daniele, Associate Professor in the Department of Applied and Computational Mathematics and Statistics

Schiumerini, Luis, Assistant Professor in the Department of Political Science

Schlegel, Catherine M., Associate Professor in the Department of Classics

Schmiedeler, James P., Professor in the Department of Aerospace and Mechanical Engineering

Schneider, William F., Professor in the Department of Chemical and Biomolecular Engineering

Schommer-Pries, Christopher J., Associate Professor in the Department of Mathematics

Schorey, Jeffrey S., Professor in the Department of Biological Sciences

Schreffler, Michael J., Professor in the Department of Art, Art History, and Design

Scranton, Roy W., Associate Professor in the Department of English

Seale-Feldman, Aidan, Assistant Professor in the Department of Anthropology

Sedmak, Clemens, Professor in the Keough School of Global Affairs

Serianni, Anthony S., Professor in the Department of Chemistry and Biochemistry

Sevov, Slavi C., Professor in the Department of Chemistry and Biochemistry

Sharkey, Amanda, Associate Professor in the Department of Management and Organization

Shepherd, Dean, Professor in the Department of Management and Organization

Sheridan, Susan G., Associate Professor in the Department of Anthropology

Shewark, Elizabeth, Assistant Professor in the Department of Psychology

Shi, Yiyu, Professor in the Department of Computer Science and Engineering

Shim, Scott, Professor in the Department of Art, Art History, and Design

Shivram, Nikhil Menon, Associate Professor in the Department of History

Shortall, Sarah E., Associate Professor in the Department of History

Shrout, Joshua, Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Sierra, Fiorella J., Assistant Professor in the Department of Political Science

Sikharulidze, George, Associate Professor in the Department of Film, Television, and Theatre

Sikkink, David H., Associate Professor in the Department of Sociology

Simon-Robertson, Anna M., Associate Professor in the Department of Physics and Astronomy

Simonetti, Antonio, Associate Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Sims, Eric R., Professor in the Department of Economics

Singh, Niharika N., Assistant Professor in the Department of Economics

Singh, Ranjan, Professor in the Department of Electrical Engineering

Sintim, Herman O., Professor in the Department of Chemistry and Biochemistry

Sirry, Mun'im A., Associate Professor in the Department of Theology

Smarandache, Roxana, Professor in the Department of Mathematics

Smith Allen, Vania, Professor in the Department of Anthropology

Smith, Bradley D., Professor in the Department of Chemistry and Biochemistry

Smith, Christian, Professor in the Department of Sociology

Smith, Cody J., Associate Professor in the Department of Biological Sciences

Smith, David A., Professor in the Department of Psychology

Snider, Gregory L., Professor in the Department of Electrical Engineering

Solomonescu, Yasmin H., Associate Professor in the Department of English

Sosa Padilla Araujo, Cesar, Associate Professor in the Department of Economics

Speaks, Jeffrey J., Professor in the Department of Philosophy

Specht, Joshua, Associate Professor in the Department of History

Springs, Jason A., Professor in the Keough School of Global Affairs

Stack, Mary S., Professor in the Department of Chemistry and Biochemistry

Stapleford, Thomas A., Associate Professor in the Program of Liberal Studies

Stapleton, Orla P., Assistant Professor in the Keough School of Global Affairs

Starchenko, Sergei, Professor in the Department of Mathematics

Stepanov, Petr, Assistant Professor in the Department of Physics and Astronomy

Sterba, James P., Professor in the Department of Philosophy

Stevenson, Robert L., Professor in the Department of Electrical Engineering

Striegel, Aaron, Professor in the Department of Computer Science and Engineering

Sullivan, James X., Professor in the Department of Economics

Sullivan, Meghan E., Professor in the Department of Philosophy

Sullivan, Robert E., Professor in the Department of History

Summers-Effler, Erika M., Associate Professor in the Department of Sociology

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Surman, Rebecca, Professor in the Department of Physics and Astronomy

Swenson, Nathan G., Professor in the Department of Biological Sciences

Tadmon Chalfi, Daniel, Assistant Professor in the Department of Sociology

Taflanidis, Alexandros A., Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Tang, Tiffany M., Assistant Professor in the Department of Applied and Computational Mathematics and Statistics

Tank, Jennifer L., Professor in the Department of Biological Sciences

Taylor, Richard E., Professor in the Department of Chemistry and Biochemistry

Tenbrunsel, Ann E., Professor in the Department of Management and Organization

Thain, Douglas L., Professor in the Department of Computer Science and Engineering

Thomas, Julia A., Professor in the Department of History

Thrall, Ashley P., Associate Professor in the Department of Civil and Environmental Engineering and Earth Sciences

Timp, Gregory L., Professor in the Department of Electrical Engineering

Tor, Deborah G., Associate Professor in the Department of History

Toroczkai, Zoltan, Professor in the Department of Physics and Astronomy

Torrance, Alexis C., Associate Professor in the Department of Theology

Torres Dowdall, Julian R., Assistant Professor in the Department of Biological Sciences

Trejo, Guillermo, Professor in the Department of Political Science

Tsai, Yuhsin, Assistant Professor in the Department of Physics and Astronomy

Tsui, Emily Y., Associate Professor in the Department of Chemistry and Biochemistry

Valentino, Kristin, Professor in the Department of Psychology

Valenzuela, J. Samuel, Professor in the Department of Sociology

Van Der Vliet Oloomi, Azareen, Professor in the Department of English

Vargas, Ivan, Assistant Professor in the Department of Psychology

Vaughan, Kevin T., Associate Professor in the Department of Biological Sciences

Verdeja, Ernesto, Associate Professor in the Keough School of Global Affairs

Villa, Dana R., Professor in the Department of Political Science

Vitulli, Juan M., Associate Professor in the Department of Romance Languages and Literatures

Vural, Dervis C., Associate Professor in the Department of Physics and Astronomy

Wang, Chaoli, Professor in the Department of Computer Science and Engineering

Wang, Lijuan, Professor in the Department of Psychology

Wang, Meng, Professor in the Department of Aerospace and Mechanical Engineering

Wang, Xueying, Assistant Professor in the Department of Theology

Wang, Yichun, Assistant Professor in the Department of Chemical and Biomolecular Engineering

Warfield, Ted A., Professor in the Department of Philosophy

Wayne, Mitchell R., Professor in the Department of Physics and Astronomy

Weiss, Lauren M., Assistant Professor in the Department of Physics and Astronomy

Weithman, Paul J., Professor in the Department of Philosophy

Wengle, Susanne, Associate Professor in the Department of Political Science

Weninger, Timothy, Associate Professor in the Department of Computer Science and Engineering

Wensing, Patrick M., Associate Professor in the Department of Aerospace and Mechanical Engineering

Westerink, Joannes J., Professor in the Department of Civil and Environmental Engineering and Earth Sciences

White, Katharine A., Assistant Professor in the Department of Chemistry and Biochemistry

White, Sophie K., Professor in the Department of American Studies

Whitmer, Jonathan, Associate Professor in the Department of Chemical and Biomolecular Engineering

Whitmore, Todd D., Associate Professor in the Department of Theology

Wickes, Jeffrey T., Associate Professor in the Department of Theology

Wiescher, Michael C., Professor in the Department of Physics and Astronomy

Wiest, Olaf G., Professor in the Department of Chemistry and Biochemistry

Williams, Richard A., Professor in the Department of Sociology

Wingert, Rebecca A., Associate Professor in the Department of Biological Sciences

Winitzer, Abraham, Associate Professor in the Department of Theology

Winters, Paul C., Professor in the Keough School of Global Affairs

Wojcik, Pamela, Professor in the Department of Film, Television, and Theatre

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Ye, Yanfang, Professor in the Department of Computer Science and Engineering

Yoon, Sharon J., Associate Professor in the Keough School of Global Affairs

Yu, Xiufan, Assistant Professor in the Department of Applied and Computational Mathematics and Statistics

Yuan, Ke-Hai, Professor in the Department of Psychology

Zartman, Jeremiah, Associate Professor in the Department of Chemical and Biomolecular Engineering

Zhai, Chengcheng, Assistant Professor in the Department of IT, Analytics and Operations

Zhang, Guangjian, Associate Professor in the Department of Psychology

Zhang, Xiangliang, Associate Professor in the Department of Computer Science and Engineering

Zhang, Yongtao, Professor in the Department of Applied and Computational Mathematics and Statistics

Zhang, Zecheng, Assistant Professor in the Department of Applied and Computational Mathematics and Statistics

Zhang, Zhiyong, Professor in the Department of Psychology

Zhao, Michael N., Assistant Professor in the Department of Philosophy

Zheng, Zhi, Assistant Professor in the Department of Electrical Engineering

Zorlutuna, Pinar, Professor in the Department of Aerospace and Mechanical Engineering

Appendix: Graduate School Policies (Full Text)

Accommodations for Students Affected by COVID-19

Students enrolled during the spring 2020 semester who experienced disruption to their academic progress during the COVID-19 pandemic are eligible for the following accommodations to policies within the Academic Code of the Graduate School.

Changes from the original policy are indicated where text is underlined.

Incomplete Coursework

Original policy: "Incomplete Coursework" on page 26. This applies to all Graduate School master's and doctoral students.

A grade of "Incomplete" (I) should be given only in exceptional circumstances and only for compelling reasons. When a student receives a grade of I, he or she has 60 calendar days from when grades were due (for the semester in which the I was given) to complete the coursework. 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 Center for Student Support and Care if a request for an extension beyond the usual 60 calendar days is made for mental or physical health reasons.

Leave of Absence

Original policy: "Leave of Absence" on page 27. This applies to all Graduate School master's and doctoral students.

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 three consecutive semesters. A request for a leave of absence can be made for study, athletic training, military, mission work, medical, and personal reasons. A request for a leave of absence must be made before the first class day of the semester in which the leave is requested, and be approved by the Graduate School. If, for some urgent reason a student chooses to leave the University after the beginning of the semester, the student must officially withdraw from the University (see "Withdrawal from the Program" on page 28). 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 decides to return.

In the case of a medical leave of absence, 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.

Medical Separation from Academic Duties

Original policy: "Medical Separation from Academic Duties" on page 27. This applies to all Graduate School master's and doctoral students.

Students enrolled in the 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, their spouse, or their dependent(s) have a "serious medical condition." For purposes of this policy, "serious medical condition" is defined as a medical condition that (1) requires a 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, their spouse, or their dependent(s) has a serious medical condition as defined in this policy must be submitted to the Graduate School as soon as the need arises (for emergency requests). In situations involving childbirth or adoption, see "Childbirth and Adoption Accommodation Policy" on page 28. 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 times during their graduate studies. Should students need more than six weeks at any one time, they must withdraw from the University. The Graduate School approves leaves of absence for one or more semesters for medical or other reasons (see "Leave of Absence" on page 27).

Probation Initiated by the Graduate School

Original policy: "Probation Initiated by the Graduate School" on page 29. This applies to all Graduate School Ph.D. students.

In addition to the probation letter initiated by the student's program of study, there are three ways in which the Graduate School may place a student on probation. 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 ninth 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 informing them of their status change.

Time Limit (Doctoral Degree)

Original policy: "Time Limit" on page 33. This applies to all Graduate School Ph.D. students.

The student must fulfill all doctoral requirements, including the dissertation, its defense, and the official submission within nine 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.

If, after the time limit expires, a student has not fulfilled all doctoral requirements, he or she may apply for dissertation completion status for up to two semesters. 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.

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 "Academic Integrity" on page 29), or for disability-related grievances (see grievance procedure available through the Center for Student Support and Care).

This procedure is provided for continuing and returning graduate students in the Graduate School. It is not to be used by applicants for admission, master's students in the Mendoza College of Business, and students in 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 conclu-

sion 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 their 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 their 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 coursework deadlines for one semester (16 weeks) during or immediately following the semester in which the birth or adoption occurs.[1] The choice of the semester is the student's.[2]
- Students are expected to register and enroll full time and to remain engaged, if at a reduced level.

Leave 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. Stops the student's eligibility clock.

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 advisers may provide funding in these cases if there are available resources. Parental relief cannot be combined with other funding.

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

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.[3] 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%.

  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 adviser, 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 adviser, 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 advisers 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 advisers 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 adviser) 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.

3. Those students for whom serving as a TA is a requirement must fulfill the requirement in a later semester.

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 adviser.

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 adviser.

In case of failure, 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 candidate'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.

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