

2023 - 2024



GRADUATE RESOURCE GUIDE

DEPARTMENT OF ECONOMICS



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WELCOME

On behalf of the faculty and staff of the Department of Economics, we would like to welcome our new students, as well as welcome back our continuing students to the new academic year. To our continuing students, we encourage you to keep up the good work as you resume your studies. To our new students, we hope that our collegial atmosphere and small class sizes prove to be a great environment where you can learn, foster new connections, and ultimately receive your advanced degree.

To all, we hope that you will find the information in this booklet helpful. If you need any assistance, please contact the Administrative Team (Ann Osborne, Katie Thorp, Kathleen Downey), or the Graduate Program Director of your respective program (Teaching Professor Ayşen Tanyeri-Abur, M.S. Graduate Program Director, and Associate Professor Silvia Prina, Ph.D. Program Director). We recommend that you consult with your Graduate Program Director to plan your program and select your courses.

We wish all of you a successful academic year.

Sincerely,

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*** Please note that the graduate program guidelines are subject to change. Please check the Economics website Graduate Student page <https://cssh.northeastern.edu/economics/resources/graduate-student-resources-and-forms/> occasionally for up-to-date information and a digital version of the Graduate Resource guide. While degree specific requirements are presented here, the official source of all degree requirements is contained in the University Graduate Catalog. Please consult the catalog <https://registrar.northeastern.edu/group/catalog/> for your entry year. ***

Department Administration

ADMINISTRATION

Robert K. Triest, Professor and Chair, 302 Lake Hall, 617-373-7852, r.triest@northeastern.edu

Ann Osborne, Administrative Officer, 301 Lake Hall, 617-373-2872, a.osborne@northeastern.edu

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Our staff is available from 9 am-5 pm, Monday through Friday in 301 Lake Hall.

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UNDERGRADUATE PROGRAM:

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ACADEMIC ADVISING

Incoming graduate students are encouraged to reach out to their program Directors who will serve as their first-year faculty advisors. Master's students are also encouraged to reach out to any of our co-op advisors to discuss co-op opportunities.

| | Advisor | Office | Phone # | E-mail |
|---------------------------|-----------------------------|---------------|----------------|--|
| 1st-Year Ph.D. | Prof. Silvia Prina | 317 LA | 617-373-4301 | s.prina@northeastern.edu |
| All M.S. | Prof. Ayşen Tanyeri-Abur | 310B LA | 617-373-4531 | a.tanyeri-abur@northeastern.edu |

CSSH Graduate Student Services Contacts

Graduate Office of Admissions and Student Services

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Sarah Whittaker

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University Policies, Resources, and Services

| | |
|--|---|
| Academic Integrity Policy As members of the academic community, students must become familiar with their rights and responsibilities. | https://osccr.sites.northeastern.edu/academic-integrity-policy/ |
| Center for Student Involvement The mission of Northeastern University's Division of Student Life is to cultivate well-prepared global citizens, promote well-being and equip learners with the skills necessary to engage diverse communities. | https://studentlife.northeastern.edu/ |
| Disability Resource Center The DRC provides students with appropriate services and can advocate as needed within the wider University community. | https://drc.sites.northeastern.edu/ |
| Mental Health Resources In addition to mental health resources available through Northeastern's University Health and Counseling Services , Northeastern has added Find@Northeastern , which is a 24/7 mental health consulting line and can be reached at 1-877-223-9477. | https://www.northeastern.edu/uhrs/find-at-northeastern/ |
| Office of the Graduate Ombudsperson Northeastern University's Ombuds for Graduate Students offers confidential, impartial, and informal assistance to graduate students who have concerns related to their university experience. | https://graduateombuds.northeastern.edu/ |
| Office of Global Services (OGS) OGS provides the professional expertise and support you need to maintain compliance through immigration, academic, and your employment experiences. | https://international.northeastern.edu/ogs/ |
| Office of Student Conduct and Conflict Resolution OSCCR engages the Northeastern University community in supporting, understanding, and appreciating the standards for community behavior by promoting accountability and encouraging responsible decision-making. | https://osccr.sites.northeastern.edu/ |
| Resources for Current CSSH Graduate Students | https://cssh.northeastern.edu/resources/resources-for-current-graduate-students/ |
| Resources for New CSSH Graduate Students | https://cssh.northeastern.edu/resources/resources-for-new-graduate-students/ |
| Snell Library offers a variety of resources for undergraduate research, including subject-specific Research Guides , help with citation and bibliography, and 24/7 chat support. The library also houses the Digital Media Commons , which offers a variety of resources for instructors and students for multimedia projects. | https://library.northeastern.edu/ |

| | |
|--|--|
| <p>Student Financial Services Billings and Payments and Financial Aid information</p> | <p>https://studentfinance.northeastern.edu/billing-payments/</p> |
| <p>Title IX Protections and Resources Title IX of the Education Amendments of 1972 protects individuals from sex or gender-based discrimination, including discrimination based on gender-identity, in educational programs and activities that receive federal funding. Any NU community member who has experienced such discrimination, sexual assault, relationship violence, stalking, coercion, and/or sexual harassment, is encouraged to seek help. Confidential support and guidance can be found through University Health and Counseling Services, the Northeastern Center for Spirituality, Dialogue, and Service, and the Office of Prevention and Education at Northeastern (OPEN). Note that faculty members are considered “responsible employees” at Northeastern University, meaning they are required to report all allegations of sex or gender-based discrimination to the Title IX Coordinator. For additional information and assistance please see the Office of Institutional Diversity and Inclusion webpage.</p> | <p>https://www.northeastern.edu/ouec/</p> |
| <p>The Office for University Equity and Compliance (OUEC), leads efforts to maintain the University’s compliance with all federal, state, and local laws pertaining to anti-discrimination, the Americans with Disabilities Act, and Title IX.</p> | <p>https://www.northeastern.edu/ouec/about/</p> |
| <p>University Health and Counseling Services UHCS offers support, information, and response to Mental and Medical Health concerns.</p> | <p>https://www.northeastern.edu/uhrs/</p> |
| <p>University Policies All university-wide policies, except for campus-specific policies, can be found on this university policy webpage. Compliance with university policies is a condition of employment and enrollment at the university.</p> | <p>https://policies.northeastern.edu/</p> |
| <p>WeCare WeCare offers support for students during times of difficulty or challenge. You can find WeCare at 226 Curry Student center Monday - Friday from 8:30-5:00, call at 617-373-7591, or email wecare@northeastern.edu</p> | <p>https://studentlife.northeastern.edu/wecare/</p> |
| <p>Northeastern University Writing Center offers free and friendly tutoring for any level of writer, including help with conceptualizing writing projects, the writing process, and using sources effectively.</p> | <p>To make an appointment, or learn more about the Writing Center, visit https://cssh.northeastern.edu/writingcenter/ or email WritingCenter@northeastern.edu. Advance and same-day appointments are available.</p> |

Economics Graduate Student Organizations and Workshops

The student experience at Northeastern is more than the department's academic programs. It includes the opportunity to participate in a variety of student organizations in which students get to know their peers and faculty outside the classroom and often can develop lifetime friendships and networking opportunities. The organizations often involve the integration of what the students have learned in the classroom with the real world outside of Northeastern.

Master's Student Association (student- run)

The Economics Master's Student Association is a career and network development focused organization. Events and lunch meetings (such as information sessions, forums, and professor panels) will be scheduled periodically with a focus on developing career plans while in the program and upon graduation.

The link to join can be found on the associations' website at <https://cssh.northeastern.edu/economics/msa/>

Ph.D. Student Association (student- run)

The purpose of the **Ph.D. Students Association** is to facilitate student-to-student and student-to- faculty interaction in less formal settings. This association is run by students.

Ph.D. Economics Workshops

The key idea behind the Ph.D. Workshops is to help Ph.D. students as much as possible to move forward on their dissertation, to learn from each other, and from faculty, and to nurture their presentation skills. Ph.D. students in their 3rd year or higher are required to present once a semester. Attendance is mandatory, unless excused by the Ph.D. Program Director.

During the academic year, each workshop meets **Wednesdays** from 12-1:15pm in 316 Lake Hall. The workshops are open to all economics graduate students and faculty.

The two types of workshops:

- **Industrial Organization**
- **Labor and Development**

Questions and/or if you want to be added to the mailing list, please contact Professor Silvia Prina at s.prina@northeastern.edu

Master of Science in Economics

The Master of Science (M. S.) program is designed to serve the need for a graduate degree for professional economists, government officials, and economic consultants, and to lay the groundwork for students who wish to pursue the Ph.D. degree. Approximately thirty students enter the program each year. Students are required to complete at least thirty-two semester hours of academic work, of which sixteen semester hours constitute core courses. Part-time (<8 SH) as well as full-time enrollment is possible.

The M.S. degree is designed to provide a solid foundation in economic theory and quantitative methods (core courses), while providing an opportunity for students to apply the tools of economic analysis to various policy areas. The focus of the program is on application and practice. Development of presentation skills and ability to produce project-oriented writing assignments are essential to the program and are emphasized in the elective (application) courses. Core theory courses also incorporate application of theory and/or methods. The option to include co-op training (paid work for 6 months) into the program enhances the practice orientation of the degree.

The M.S. degree is **STEM** certified covering a curriculum based on the idea of educating students in four specific disciplines — science, technology, engineering, and mathematics— in an interdisciplinary and applied approach.

IPEDS classification: Detail for CIP code

*45.0603 Title: Econometrics and Quantitative
Economics*

Please note that “Econometrics and Quantitative Economics” is the IPEDS classification for the M.S. degree program, not the title of your degree program.

IPEDS is the acronym for Integrated Postsecondary Education Data System. For more information, on IPEDS, please visit <https://provost.northeastern.edu/uds/news/what-is-ipeds/>.

M.S. Degree Requirements

The M.S. program requirements are 8 courses (32 semester hours of credit), including four core courses and four elective courses. Students typically complete the program in three or four semesters.

Current and prospective students should refer to the Graduate Catalog at <https://catalog.northeastern.edu/graduate/> for a description of the Master of Science in Economics curriculum.

Course offerings with detailed descriptions can be found at: <https://catalog.northeastern.edu/graduate/social-sciences-humanities/economics/#coursestext>

Course Scheduling

Graduate core classes meet for 200 minutes per week, with most core classes meeting twice per week at 100 minutes each and most elective classes meeting just once weekly.

To view the class schedule for the current semester, visit <https://registrar.northeastern.edu/article/schedule-of-classes/>

| CORE REQUIREMENTS | | |
|---|-----------------------------------|----|
| *Advanced 6000-level core courses provide a rigorous foundation for those who have taken intermediate level core courses and/or wish to pursue a Ph.D. in future, and are open to all Master's students. | | |
| Quantitative | | SH |
| ECON 5105 or 6105 (Advanced) | Math and Statistics for Economics | 4 |
| ECON 5140 or 6140 (Advanced) | Applied Econometrics | 4 |
| Theory | | |
| ECON 5110 or 6110 (Advanced) | Microeconomic Theory | 4 |
| ECON 5120 or 6120 (Advanced) | Macroeconomic Theory | 4 |
| ELECTIVES | | |
| ECON 5200 to ECON 7772 | | 16 |
| *With prior approval from the graduate program director, the following courses may substitute for electives: Thesis (ECON 7990) or Internship In Economics (ECON 8550). Additionally, a student may select, with approval by the MS Graduate Director, a maximum of eight graduate semester hours offered by other departments. | | |

M.S. students interested in pursuing a Ph. D. degree: All M.S. students who may be interested in pursuing a doctoral degree in the future are strongly encouraged to follow the M.S. Advanced Core course plan. Those who plan to apply for admission to our Ph.D. program in Fall 2024 must complete the Fall 2023 M.S. Advanced Core course plan, as performance in those classes will play an important role in the Ph.D. Admissions Committee's deliberations, as well as the Spring 2024 M.S. Advanced Core course plan. Accepted students would be transitioned into the Ph.D. program in Fall 2024. Doctoral students who join or transition to the Ph.D. program without the M.S. will be awarded the M.S. degree when Ph.D. Candidacy is reached.

Concentration in Data Science for Economics

The *Optional Data Science Concentration in partnership with Khoury College of Computer Science* allows students to gain a foundation in economics and also hone their computational modeling and programming skills. The concentration may be taken in place of the elective section. Seattle students are required to complete the concentration.

A major task that someone graduating from our M.S. Economics with the Data Science Concentration can do is to use data analytics and economic framework to quantify causal impacts of policy interventions, at either micro (firm policies such as marketing strategy) or macro level (national policies). The proximity to many leading tech companies makes our Seattle program well-suited to those looking for opportunities in the burgeoning tech industry.

| | | |
|---|---|---|
| Required | | |
| CS 5800 | Algorithms | 4 |
| DS 5110 | Introduction to Data Management and Processing | 4 |
| Complete 4 semester hours from the following courses: | | 4 |
| DS 5220 | Supervised Machine Learning and Learning Theory | |
| DS 5230 | Unsupervised Machine Learning and Data Mining | |
| | | |
| Economics Elective | | |
| Complete 4 semester hours from the following range: | | 4 |
| ECON 5200 to ECON 7772 | | |

Optional Co-op Experience:

Requires two consecutive semesters of Co-op Work Experience and taking the following 1 credit hour courses for Experiential Integration:

ECON 6964 and INSH 6864 (Co-op Work Experience and Experiential Integration)

Program Credit/GPA Requirements:

*32 total semester hours required (34 with optional co-op)

*Minimum 3.000 GPA required

M.S. Co-op Option

Northeastern University's academic programs are widely known for incorporating on-the-job learning experiences with academic training. The Department of Economics offers a Graduate Cooperative Education option in its Master of Science in Economics program. This exciting program option allows qualified students to enhance their practice-oriented graduate education in Economics with actual work experience.

To be eligible for the co-op program, Master's students in Economics must meet the following requirements:

- Minimum GPA of 3.0 or above at the beginning of your search semester, prior to Co-op
- Completion of 4 core courses in your program: Micro Theory, Macro Theory, Math & Statistics for Economists, Econometrics
- Completion of two full-time semesters prior to going out on co-op, with 2-3 classes (8-12 credits) each semester.
- Candidates must be available for full-time 6-month positions, during the Jan. -June or July-Dec. co-op cycles.

Important Note: *Students must still complete all other curricular requirements associated with their program, so electing to add co-op to the program will increase the SH required for the degree by TWO billable hours.*

Quick Facts

- a) While on co-op, students maintain their status as a full-time student, which includes continued health insurance and access to NU facilities.
- b) Co-op typically extends time-to-degree by 6 months.
- c) CSSH Master's co-op requires that students commit to full-time employment for 6 months. The two co-op cycles run from January-June or July-December.
- d) Students prepare for co-op beginning early in the semester **before** they plan to go on co-op (in **September** for spring co-ops and in **January** for fall co-ops).
- e) CSSH graduate students may choose to take 1 additional graduate course while on co-op if the course does not interfere with their workday. Permission is needed from their Co-op Coordinator and Co-op employer. However, it is strongly recommended that students do NOT take any 4 credit courses while on Co-op.

Required Coursework

- Registration for the Co-op Work Experience course (ECON 6964) is handled by the Registrar's Office. It occurs 3 weeks prior to the start of the term with an approved placement in NUworks. This course triggers full-time academic status.
- Co-op work experience is graded on a pass/fail basis by the co-op coordinator for 0 credit hours.
- Registration for the required Experiential Integration course (INSH 6864) is handled by the Graduate Office. This is a graded online 1 credit course that students take while they are on Co-op. Students will be enrolled once a job is secured per the timeline below:

✦ JANUARY – JUNE CO-OP: Registered for INSH 6864 in December for Spring and April for Summer 1

✦ JULY – DECEMBER CO-OP: Registered for INSH 6864 in June for Summer 2 and August for Fall

Important Note: *Students must still complete all other curricular requirements associated with their program, so electing to add co-op to the program will increase the credit hours required for the degree by TWO billable hours*

Timeline and Checklist

- Meet *with your graduate program director* to discuss your interest in co-op to determine whether/how it fits within your curriculum.
- Be in good academic standing at the time when you apply for a co-op position with a 3.00 GPA or higher.
- Complete the CSSH Co-op Graduate modules on Canvas by late January for the July cycle, and late September for the January cycle
- Fill out the Co-op Search and Work Agreement in Canvas by the stated deadline which is typically the second Friday of the term
- Prepare to devote time to your job search the semester BEFORE you plan to go out.
 - Spring Co-ops: job search, September-December (candidates in this cycle have typically started graduate program in January)
 - Fall Co-ops: July – December: job search late January-June (candidates in this cycle have typically started program in September)
- Once assigned, schedule a meeting with your co-op coordinator to review your resume and interests using Navigate
- Be approved by your co-op coordinator to begin searching job postings on NUworks, the Co-op database.
- Meet all deadlines set by CSSH grad administrator and your co-op coordinator.

Eligibility

1. Graduate students can only go on co-op after they have completed two semesters of coursework. They may search and apply for co-op positions **during their second semester** if they meet eligibility requirements.
2. CSSH Graduate Co-op requires a minimum 3.00 GPA to begin searching for Co-op.
3. International students can participate in co-op as curricular practical training (CPT for F1 students) or academic training (AT for J1 students) but may do so only after completing their first full academic year. **This means F1/J1 candidates are only eligible to work in their second year of the program. The process for applying for CPT and a Social Security number does not begin until after students have accepted a Co-op. This will be outlined in your Canvas course and by your Co-op Coordinator.**
4. Students cannot go on co-op once they have completed all of their required graduate courses. They must have a curricular requirement left in order to go on co-op. They may take their last curricular requirement (online or on ground) while they are on co-op (if approved) or when they return to campus after completing their co-op.

Process

1. Students meet with the graduate program director to discuss their eligibility and to determine whether/how co-op fits within the curriculum.
2. Students are required to complete all modules in Canvas and any department specific information sessions.
3. Students will be prompted to submit the Co-op Search and Work Agreement on Canvas and with reminders from Grad CSSH regarding Intent deadline.

4. After the intent deadline has passed, students will be assigned a Co-op Coordinator. They will then use the Navigate advisor calendar to schedule an appointment with their Coordinator to review their resume and goals for co-op.
5. After an initial meeting, students are released to begin searching and applying to job postings on NUworks.
6. Students apply to jobs based on qualifications and interest. Employers then select candidates to interview and hire based on the skills and qualifications necessary for the job. The process is competitive so students work with their Co-op Coordinator to determine how to best present themselves as a candidate and select jobs based on their previous experience and skills.
7. **Once a student accepts a position, they cannot renege on the offer and must commit to working the full 6-month co-op for the employer.**

Current and previous Co-ops held by MS-Econ students:

- Boston Planning & Development Agency, Research Co-op
- Ceres, Capital Markets Financial Regulations Co-op
- Costa Law Group, Tax Preparer -Client Liaison
- Fidelity, Center of Applied Technology, Innovation Business Analyst
- Harvard Law School, IT & Audio Visual Support Assistant
- Massachusetts School Building Authority, Capital Planning Assistant
- Scotiabank (New York), Compliance Co-op
- Wayfair, IT Engineering

Contacts

MS in Economics Graduate Program Director, 310B LA

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Co-op Coordinator(s), 180 RP

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Rebecca Westerling (r.westerling@northeastern.edu)

Ph.D. in Applied Economics

The Doctor of Philosophy degree is awarded to candidates who show high scholastic attainment and research ability in their major field. Note that advanced standing is determined at the time of admission by the Ph.D. graduate program director. The Ph.D. program is small and focused, with students concentrating in one field of specialization. Fewer than ten students enter the program each year. Students may concentrate in either industrial organization, competition policy, and regulatory economics or labor economics. Each field is covered in two semester courses at the Ph.D. level. Students who elect the industrial organization, competition policy, and regulatory economics field may further elect a second field in transportation economics. Admission from the Bachelor's level requires taking the M.S. core courses and two additional elective courses plus the Ph.D. requirements.

The Ph.D. program is **STEM** certified covering a curriculum based on the idea of educating students in four specific disciplines — science, technology, engineering and mathematics — in an interdisciplinary and applied approach. (The IPEDS classification: CIP Code 45.0603, Title: Econometrics and Quantitative Economics)

Continuity of Registration

Students are required to maintain satisfactory progress toward their intended degree. All students must register as approved by their advisers or the departmental graduate program directors. After establishing degree candidacy, registration must be continuous until graduation requirements are complete unless a leave of absence is allowed by and recommended by the departmental graduate committee and approved by the college. For the first two semesters that a doctoral candidate has established candidacy, the student must register for Doctoral Dissertation 1, then Doctoral Dissertation 2. For each semester beyond the two Dissertation registrations, the student must register for Doctoral Dissertation Continuation until the dissertation is approved by the college and submitted to ProQuest. During the terms when a student is registered for Doctoral Dissertation or Dissertation Continuation, coursework is not permitted as the course requirements for the degree have already been met. If the academic program requires enrollment in seminars or courses in addition to Dissertation or Dissertation Continuation, the graduate program director will make a recommendation to the college. Approval of the college must happen prior to registration. Students must be registered for Dissertation or Dissertation Continuation during the semester in which they take the final oral examination (including the full summer semester if that is when defense occurs). Any student who does not attend Northeastern University for a period of one year may be required to apply for readmission.

Awards

All admitted Ph.D.s are awarded Stipended Graduate Assistantships (SGA). These awards offer a stipend, tuition remission and the NUSHP health plan to full-time students. Student fees, including the University Health and Counseling Services fee, are not covered by the assistantship. In order to maintain awards, students must be making satisfactory progress toward their degrees. More details about assistantships are included in the admissions offer letters.

Course Requirements

Course requirements in each doctoral program are detailed in the academic catalog for the student's term of entry.

GPA Requirements

For all CSSH doctoral degree programs, **students must maintain a minimum cumulative GPA of 3.500**. This average will be calculated each semester according to the grading system noted in the academic catalog and will exclude any transfer credits or repeated courses. Individual programs may have additional GPA requirements. These can be found in the academic catalog or program policies and procedure documents. A

student who does not make satisfactory progress toward degree requirements, as specified by the individual department, may be terminated from the program. A student cannot begin working on exam requirements with a GPA that is below the program minimum.

Annual Student Progress Review

All Ph.D. degree students are required to meet with their faculty adviser for an annual student progress review. The reviews will determine whether satisfactory progress is being made and students are eligible to proceed to complete their graduate work. The CSSH Graduate Office will receive a copy of each student's review.

The field of **Industrial Organization, Competition Policy, and Regulatory Economics** analyzes and evaluates the performance of markets and devises appropriate policy responses when markets are not performing well. By developing techniques for examining the structure, conduct, and performance of markets, it bridges economic theory and the real world. In addition, it helps to develop and implement antitrust and regulatory policies to remedy failures of those markets. Students specializing in industrial organization may further elect a second field in transportation economics.

The field of **Labor Economics** analyzes the neoclassical labor market, covering such topics as the supply of labor from the perspective of the individual and the family, human capital, the demand for labor, market equilibrium, and the determination and distribution of wages and earnings. Theoretical and empirical issues surrounding current topics in labor economics are examined, and may include discrimination, efficiency wage theory, labor legislation, life cycle analysis and the use of microdata (panel studies), search behavior, intergenerational earnings mobility, and employment and training policies.

Curriculum

Current and prospective students should refer to the most recent Graduate Catalog at <https://catalog.northeastern.edu/graduate/social-sciences-humanities/economics/economics-phd/> for a detailed description of the Ph.D. in applied economics curriculum. The Catalog for your entry year contains the academic requirements relevant to you.

Course Scheduling

Most graduate classes meet twice per week for one and one-half hours each day or once per week for three hours. Most doctoral classes are scheduled during the day, with some elective classes scheduled in the evenings. To view the class schedule for the current semester visit the Registrar's website at <https://registrar.northeastern.edu/article/schedule-of-classes/>. Detailed course offerings can be found at: <https://catalog.northeastern.edu/graduate/social-sciences-humanities/economics/#coursestext>

Ph.D. Program Course Requirements

Students will take a minimum of 48 semester hours, or 12 econ courses: 7 required quantitative and theory courses, 4 field courses, and 1 elective. We expect all Ph.D. students to take three classes per semester as necessary to complete coursework in the minimum number of semesters.

Core courses focus on developing an advanced theoretical and quantitative foundation (Microeconomic Theory, Macroeconomic Theory, and Econometrics). Core courses are:

Microeconomic Theory

ECON 6110 – Advanced Microeconomic Theory, 4 hours ECON 7710 – Microeconomic Theory II, 4 hours

Macroeconomic Theory

ECON 6120 – Advanced Macroeconomic Theory, 4 hours ECON 7720 – Advanced Macroeconomic Theory II, 4 hours

Econometrics

ECON 6105 – Advanced Mathematics and Statistics for Economists, 4 hours ECON 6140 – Advanced Applied Econometrics, 4 hours
ECON 7740 – Applied Econometrics II, 4 hours

Field courses focus on the sophisticated application of analytical tools in the chosen fields of concentration. Completion of the core courses must precede completion of field courses.

Labor Economics field:

ECON 7763 – Labor Market Analysis, 4 hours ECON 7764 – Topics in Labor Economics, 4 hours

Industrial Organization field:

ECON 7771 – Framework of Industrial Organization, 4 hours ECON 7772 – Public Policy Toward Business, 4 hours

Electives: Complete 4 semester hours from the following: ECON 7200 to ECON 7299 or
ECON 7976 Directed Study

*To maintain satisfactory standing in the Ph.D. program, students must earn a grade of B or higher in at least four field courses.

This is the sample sequence for Ph.D. students starting in the Fall 2023:

| Fall 2023 | Spring 2024 | Fall 2024 | Spring 2025 |
|------------------|--------------------|------------------|--------------------|
| ECON 6105 | ECON 6110 | ECON 7740 | ECON 7764 |
| ECON 6120 | ECON 6140 | ECON 7763 | ECON 7772 |
| ECON 7710 | ECON 7720 | ECON 7771 | Elective |

F-1 students who receive science, technology, engineering, and mathematics (STEM) degrees, and who meet other requirements are eligible to apply for a 24-month extension of their post-completion OPT. Information about eligibility is available at Office of Global Services at <https://international.northeastern.edu/ogs/new-students/>.

Dissertation

Registration in the following class is required in the semester that students begin work on their dissertation proposal and continues in any subsequent semesters until a proposal defense is approved and doctoral candidacy is achieved:

ECON 9986 Research

Registration in the following courses are required in the two semesters following achievement of doctoral candidacy:

ECON 9991 (Dissertation Term 1) and ECON 9992 (Dissertation Term 2)

Following completion of two semesters of dissertation, registration in the following class is required in each semester (excluding summers) until the dissertation is completed:

ECON 9996 (Dissertation Continuation)

Program Credit/GPA Requirements:

***48 total semester hours**

***Minimum 3.500 GPA**

PLEASE NOTE PH.D. STUDENTS ARE NOT ALLOWED TO TAKE EXTRA COURSES AFTER THEY HAVE ACHIEVED CANDIDACY

SUMMARY OF PROGRAM REQUIREMENTS

Complete all courses and requirements.

Pass three qualifying examinations—microeconomics, macroeconomics, and econometrics

Field workshop participation throughout the program

Seminar series participation throughout the program

Dissertation committee established

Dissertation proposal defended

Doctoral degree candidacy achieved

Dissertation defended

Ph.D. annual student progress review

The above guidelines are designed to help students plan. Because requirements change over time, these guidelines are most accurate for students admitted to the program this year. Previous years' admits should refer to the graduate guide provided at the time of their orientation.

PhD Qualifying Exams Schedule

Three Qualifying Examinations—Macroeconomics, Microeconomics, and Econometrics

Three qualifying examinations are required upon completion of Macroeconomics 2, Microeconomics 2, and Econometrics 2. Students must receive a minimum grade of B– in the associated theory class to sit for its exam. Students are given a maximum of two attempts to pass each exam to continue in the program. Failure to sit for an exam at the appropriate time without prior consent of the graduate program director will result in an automatic fail on that exam. Students who fail two attempts at an exam may appeal to take it a third time.

2024 Qualifying Examinations Schedule

Doctoral students are required to take the macro, micro, and econometrics qualifying exams at the next available offering after all theory courses have been completed.

| <u>Date and time:</u> | <u>Qualifying Exams</u> | |
|--|-------------------------|----------------------|
| Wednesday, May 22, 2024 10:00 am - 1:00 pm | <u>Microeconomics</u> | 1 st take |
| Wednesday, June 12, 2024 10:00 am - 1:00 pm | <u>Macroeconomics</u> | 1 st take |
| Wednesday, January 29, 2025 (<i>tentative</i>) 10:00 am - 1:00 pm | <u>Econometrics</u> | 1 st take |
| Wednesday, August 14, 2024 10:00 am - 1:00 pm | <u>Microeconomics</u> | 2 nd take |
| August 28, 2024 10:00 am - 1:00 pm | <u>Macroeconomics</u> | 2 nd take |
| Wednesday, May 28, 2025 10:00 am - 1:00 pm | <u>Econometrics</u> | 2 nd take |

Unless notified otherwise, exams will take place in the 316 Lake Hall conference room. Please use the link below to view/download previous exams.

https://www.dropbox.com/sh/z6x3r2inme55f5h/AACnWuhf-tTAqoPb_Mf16bjMa?dl=0

DOCTORAL DEGREE CANDIDACY

Upon successful completion of the **proposal defense**, the student becomes a degree candidate. Candidacy may make the student eligible for a higher stipend and is an essential step in making satisfactory progress. Degree candidacy must be achieved within two years of completion of required coursework.

DISSERTATION

Students must complete their dissertation defense within five years of finishing their coursework, and postponing the proposal defense does not alter the total time that students may use to complete their Ph.D. Under extenuating circumstances, a student may request an extension of this time frame from the Graduate Office.

One month in advance of the prospective date of the defense, the completed dissertation that is to be defended must be circulated to the committee members. At that time, all members of the committee must sign off on their agreement that the dissertation is ready for defense. Each student will have a dissertation committee chaired by a faculty member with an appointment in the economics department and at least two other members. Committees may have two co-chairs. Committees should not have more than four members (except at interim stages if faculty are leaving the committee). Committees may include members outside the economics department, but at least two committee members must have an appointment in the economics department. The composition of the committee should be set before the proposal defense and again, if changes occur, before the dissertation defense. Committee compositions must be approved by the graduate program director and department chair.

The dissertation defense normally takes place during the student's fifth year. Those who have not defended by the end of their fifth year must submit a status report and timetable for approval by their dissertation adviser and the Ph.D. program director. Consult Ph.D. Program Guidelines on the website for further details.

WRITING THE DOCTORAL DISSERTATION

Writing the dissertation entails working with the principal advisor and other committee members until it is determined that a dissertation is complete, and the candidate is ready to present and defend the work at an open seminar. Candidates must arrange a date and time for the defense at least three weeks in advance. Students must familiarize themselves with the Thesis and Dissertation Formatting Guidelines at <https://cssh.northeastern.edu/resources/theses-and-dissertations/>. The guide provides links to formatting tips, sample introductory pages, sample approval record, and **deadlines**. In addition, a checklist is provided to ensure students have fulfilled the required steps in the commencement clearance process.

Milestones

Maintaining satisfactory academic progress during doctoral candidacy requires the following:

Ph.D. Annual Student Progress Review

Each Ph.D. student will have an annual review of their progress toward the degree. Receipt of financial support administered by the graduate school is contingent upon satisfactory academic progress toward the degree and satisfactory performance in assigned duties. See the CSSH Graduate Programs General Regulations at <http://catalog.northeastern.edu/graduate/social-sciences-humanities/general-regulations/> for further details.

Field Workshop Participation and Presentations

All Ph.D. students registered for Doctoral Dissertation or Continuation who are in residence are expected to attend a dissertation workshop. These seminars meet roughly every week, and their purpose is to assist

students in choosing and evaluating dissertation topics as well as advancing and completing their dissertation. Workshop presentations (or proposals or defenses) in the Fall and Spring semesters are mandatory for students in their 3rd year and higher. Exemptions to workshop presentations must be approved by the Ph.D. Program Director. Students on medical leave or maternal/paternity leave will be automatically exempted. Not presenting in a given semester without an exemption will trigger an unsatisfactory grade.

Seminar Series Participation

All Ph.D. students registered for Doctoral Dissertation or Continuation who are in residence are expected to regularly attend academic seminars by speakers invited to campus through the Department of Economics Seminar Series. Participation in these seminars is an important component of doctoral training and is intended to expose students to current research in their field while helping to develop and hone their own presentation skills.

Practical Experience in Applied Economics Program

Participation in at least one semester of the Practical Experience in Applied Economics program is required of all students who have reached doctoral candidacy. The program is offered in the spring semester every other year. In this program, a variety of prominent practitioners working in consulting and government agencies in the fields of industrial organization and labor will describe their practical experience applying economics to a variety of consulting and policy problems, including antitrust, regulation, labor market policy, education, and health policy. This is a participatory class that will require advanced reading and preparation of questions for the practitioners in addition to other assignments.

PLEASE NOTE PH.D. STUDENTS ARE NOT ALLOWED TO TAKE EXTRA COURSES AFTER ACHIEVING CANDIDACY.

Ph.D. – Commencement Checklist

To ensure you have fulfilled all of the required steps in the commencement clearance process, please complete the step-by-step checklist, in order, below.

1. Apply to graduate via Student Hub. (Note: you must do this regardless of whether you plan to participate in a ceremony. If you receive an error message please contact staff at the Department of Economics as your “expected graduation date” may need to be updated.) Information about applying to graduate can be found here: <https://commencement.northeastern.edu/prepare-to-graduate/apply/>.
2. Arrange your defense date, time, and location with your department. **The defense must be publicly advertised for at least 2 weeks prior to the scheduled defense.** This includes an announcement on the Graduate Office web site and an announcement sent by the student’s academic department. Please email the following to gradcssh@northeastern.edu and the Economics Department staff as soon as the defense is scheduled, but no later than 16 days prior to the defense:

- Name
- Department
- Dissertation Title
- Advisor Name
- Date and time
- Location
- Head shot

- The defense should be held at least 2 weeks prior to the submission deadline so please keep this in mind.
- The student and at least two committee members must be present in person at the defense. All internal and external committee members are expected to participate in the defense.
- Draft Northeastern University Graduate Approval Record – prepared by you and without signatures (Dissertation [template](#)).
- Make an appointment with the Graduate Office for a format review. This appointment should occur 1-2 weeks prior to your defense. The Thesis and Dissertation Formatting Guidelines at <https://cssh.northeastern.edu/resources/theses-and-dissertations/> explains what you should bring to the appointment.
- Submit your Survey of Earned Doctorates on-line (<https://cssh.northeastern.edu/resources/theses-and-dissertations/#sed>).
- Defend your thesis or dissertation prior to the Graduate Office deadline leaving adequate time for you to make revisions as required by your committee.
- Finalize your edits and obtain signatures on the NU Graduate Approval Record. Note that edits cannot be made once the signatures are obtained.
- Submit your signed (including your Department Chair’s signature) NU Graduate Approval Record to the Graduate Office, 180 Renaissance Park.
- Submit your employment information, including employer name and job title, to the Graduate Office, gradcssh@northeastern.edu
- Submit your thesis or dissertation to the ProQuest/UMI web site as soon as the Graduate Office signs the NU Graduate Approval Record.

Ph.D. NETWORK

The Northeastern Ph.D. Network (<https://phd.northeastern.edu/network/overview/>) is an organization designed to build community among Ph.D. students. The Network provides students with support and resources university wide to enhance their educational experience and career preparation.

Shared values unite Ph.D.-centered activities at Northeastern, which prepares critical thinkers to tackle society's most challenging problems:

- **Excellence with purpose:** *All Ph.D. programs combine academic rigor with societal impact.*
- **Innovative thinking:** *Our education programs, mentoring activities, and research scholarship promote novel content and pathfinding approaches.*
- **Crossing boundaries:** *Ph.D. students transcend disciplinary and international boundaries during their innovative educational journey.*
- **Integrative education:** *The integration of scholarship and research training with collaborative fieldwork and professional development provides a uniquely experiential education.*
- **Inclusive diversity:** *Students and faculty from diverse cultures and backgrounds drive excellence by bringing a wide range of perspectives to our distinctive programs.*

At Northeastern, every Ph.D. student has opportunities to acquire experience beyond traditional dissertation research. Exposure to and integration with our many industry and academic partners — through internships, fieldwork, and other collaborations, and in authentic settings, from laboratories, startup companies, and nonprofit institutions — lead to research with greater impact and broader career opportunities, both within and beyond academia.

Explore these pages to learn more about:

- Resources that support Ph.D. students' educational, professional, and personal lives
- Events created especially for Ph.D. students, both at Northeastern and through our partners; and
- Funding in support of fellowships, internships, and conference attendance.

Northeastern offers a wealth of resources (<https://phd.northeastern.edu/network/resources/>) and services to support the research, education, career planning and development, and wellbeing of all Ph.D. students.

Because navigating a path can be challenging, the Ph.D. Network brings together the most important programs, services, and tools. They include searchable databases, internal and external grant programs, writing resources, and professional development.

Travel Funding

The Ph.D. Network, in conjunction with the Graduate Student Government, offers travel funding to enable Ph.D. students to present research in venues that will provide professional development and visibility to enhance careers.

Ph.D. students are invited to **make a request once a year for up to \$500 in travel funding** from the Ph.D. Network.

Please read the Ph.D. Network Travel Funding Policy at
<https://phd.northeastern.edu/network/resources/travelfunding/>

General inquiries:
econ@northeastern.edu (undergraduate)
gradecon@northeastern.edu (graduate)



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