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<tr>
<td>CSSH Graduate Student Services Contacts</td>
<td>50</td>
</tr>
</tbody>
</table>
On behalf of the faculty and staff of the Economics Department, 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 Cheryl Fonville, Kathleen Downey (until the Graduate Administration Coordinator position is filled), Jun Ma (Professor and MS Program Director), Aysen Tanyeri-Abur (Teaching Professor and MS Graduate Program Associate Director) or Silvia Prina (Associate Professor and 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,

Silvia Prina
Associate Professor, Ph.D. Graduate Program Director
s.prina@northeastern.edu
317 Lake Hall

Jun Ma
Professor, MS Graduate Program Director,
Dean’s Leadership Fellow for Global Partnerships
ju.ma@northeastern.edu
319 Holmes Hall

Aysen Tanyeri-Abur
MS Graduate Program Associate Director & Teaching Professor
a.tanyeri-abur@northeastern.edu

Cheryl Fonville
Administrative Officer
c.fonville@northeastern.edu
301 Lake Hall
617-373-2872

Kathleen Downey
301 Lake Hall
617-373-2887
k.downey@northeastern.edu

** Please note that the graduate program guidelines are subject to change. Please check the Economics website Graduate Student Resources and Forms 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://catalog.northeastern.edu/graduate/social-sciences-humanities/economics/ for your entry year. **
Robert K. Triest, Professor and Chair, 302 Lake Hall, 617-373-7852, r.triest@northeastern.edu
Cheryl Fonville, Administrative Officer, 301 Lake Hall, 617-373-2872, c.fonville@northeastern.edu
Kathleen Downey, Marketing Assistant, IIOC Conference Coordinator
301 Lake Hall, 617-373-2887, k.downey@northeastern.edu

Katie Thorp, Administrative Assistant
301 Lake Hall, 617.373.2882, k.thorp@northeastern.edu

Our staff is available from 9 am-5 pm, Monday through Friday in 301 Lake Hall.
While all staff will be working during these hours and 301 Lake Hall will be staffed every day, as of the beginning of the fall semester individual staff members will often be working remotely on specific days.

GRADUATE PROGRAMS:
Silvia Prina, Associate Professor and Ph.D. Graduate Program Director
317 Lake Hall, 617-373-4301, s.prina@northeastern.edu

James Dana, Professor and Ph.D. Placement Director
306 Lake Hall, 617-373-7517, j.dana@northeastern.edu.

Jun Ma, Professor, MS Graduate Program Director and Dean’s Leadership Fellow for Global Partnerships
319 Holmes Hall, 617-373-3646, ju.ma@northeastern.edu

Aysen Tanyeri-Abur, Teaching Professor and MS Graduate Program Associate Director
310B Lake Hall, 617-373-4531, a.tanyeri-abur@northeastern.edu

UNDERGRADUATE PROGRAMS:
Gustavo Vicentini, Teaching Professor, Undergraduate Program Director
307A Lake Hall, 617.373.8427, g.vicentini@northeastern.edu

Katie Thorp, Administrative Assistant
301 Lake Hall, 617.373.2882, k.thorp@northeastern.edu
Tuition, Fees, Payment & Billing

Please visit the Student Financial Services website at https://studentfinance.northeastern.edu/applying-for-aid/graduate/ for the most up to date Tuition and Fees information. All tuition and fees are subject to revision by the University’s President and the Board of Trustees.

Graduate Tuition Program: Social Sciences and Humanities
MS and Doctoral Coursework in Economics  $1,433 (per credit hour)

<table>
<thead>
<tr>
<th>Fee Type</th>
<th>Semester</th>
<th>Summer Session</th>
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</thead>
<tbody>
<tr>
<td>International Student Fee (one-time)</td>
<td>$350</td>
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</tr>
<tr>
<td>Residential Student Fee (per term)</td>
<td>$32</td>
<td>$16</td>
</tr>
<tr>
<td>Student Center Fee (full-time students, per term, Boston campus only)</td>
<td>$70</td>
<td>$35</td>
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<tr>
<td>Student Center Fee (part-time students, per term, Boston campus only)</td>
<td>$10</td>
<td>$5</td>
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<tr>
<td>Student Recreation Fee (full-time students, per term)</td>
<td>$60</td>
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<tr>
<td>Student Recreation Fee (part-time students, per term)</td>
<td>$30</td>
<td></td>
</tr>
<tr>
<td>Student Activities Fee (per term)</td>
<td>$17</td>
<td>$8.50</td>
</tr>
</tbody>
</table>

Dissertation (flat rate equivalent to 1.5 x the college per credit hour rate listed above)

Campus Recreation Fee
This fee is assessed during terms a student is in classes to support and maintain current facilities and the future construction of athletic fields and facilities. In addition, students have the option to gain admission to home athletic events, use the Marino Fitness Center, the Squash Busters athletic facility, and the Cabot Gym (fitness and pool).

International Student Fee
International students are assessed this fee their first term, or upon admission to the university. If a student completes their program and enters a new educational level the student would be assessed the fee the first term of their new educational level.

Northeastern University Health Plan
The Commonwealth of Massachusetts requires that all students who have matriculated and carry a certain course load or are enrolled in a full-time program have hospital insurance. Students who are covered under a comparable domestic hospital insurance plan may waive the Health Services fee through their https://mynortheastern.edu/ portal.

Student Activity Fee
This student endorsed fee provides support for student organizations, clubs, and entertainment events throughout the school year. It is assessed annually for undergraduate students and per term for other student populations.

Student Center Fee
Students pay a student center fee per in-school term to support the Curry Student Center.
Refund Polices and Withdrawal Adjustments

Refund Policies
Inquiries about credit balances should be directed to Student Accounts. Refund requests for credit balances are made via the “Services & Links” section on the student’s myNortheastern portal at https://my.northeastern.edu/. Credit balances will be refunded to the student, unless otherwise directed by the student or the bill payer.

Note the following exception: If the credit in your account is due to a Parent PLUS Loan, Supplemental Loan, and/or payment plan payment(s), the credit balance will be refunded to the bill payer on record unless a Refund Authorization form, stating that funds may be released directly to the student, is received from that borrower. If a credit stems from an overpayment with a credit card, the refund must be returned to the credit card that was used.

Official Withdrawal Adjustments
Students who officially withdraw, either from a course or from the university, during an academic term will receive a tuition refund based on the policy specified below. Institutional funds awarded by Northeastern University will be adjusted based on the actual charges incurred during the semester. Funds from federal Title IV programs will be returned to the government according to federal regulations. The federal government Return of Funds Policy dictates that a student’s eligibility for federal financial aid is determined by the number of days enrolled during the semester. The refund will be calculated from the day the student submits a notification of withdrawal to the Office of the University Registrar.

Tuition credits are granted through the first five weeks of a semester or first four weeks of a half-semester, based on the date of the official withdrawal processed by the Office of the University Registrar. Nonattendance does not constitute official withdrawal. Credit policies vary according to the duration of the course. Typical tuition adjustments are made according to the following schedule. (The end of week three corresponds with the last day to drop a class without a W grade.)

During Full Semester
During weeks one through three — 100% refund
During the fourth week — 60% refund
During the fifth week — 40% refund
After the fifth week — NO refund

Summer Half Semesters and Courses Offered in Part-of-Term Format
During weeks one through two — 100% refund
During the third week — 50% refund
During the fourth week — 25% refund
After the fourth week — no refund

The last day of Fall 2022 registration is September 21, 2022.

Leave of Absence Tuition and Fee Adjustments: Please refer to Graduate Schools Academic Policies at http://catalog.northeastern.edu/graduate/academic-policies-procedures/policies/

Disability Resource Center Tuition Adjustments:
Students who are registered with Northeastern University’s Disability Resource Center (DRC) at http://www.northeastern.edu/drc/ and are approved for reduced course loads may be eligible to petition the center for tuition adjustments directly related to their documented disability.

State-Specific Refund Policies
https://studentfinance.northeastern.edu/policies-procedures/.
Financial Aid and Awards

Northeastern offers a full complement of financial assistance to eligible graduate students including assistantships, scholarships, loans, and work awards from both federal and institutional sources. Grants and scholarships are considered gift aid, and do not have to be repaid; loans must be repaid. Grants, scholarships, and loans are applied directly to tuition charges. Earnings from work awards are distributed through weekly pay and are generally intended to help students with expenses during the academic year.

To be eligible for federal assistance, students must be U.S. Citizens or eligible non-citizens. International students are not eligible for federal financial aid but may qualify for alternative loan financing. Additionally, graduate assistantships may be available to qualified applicants. Please consult with your academic advisor and the CSSH Graduate Office. Learn more about the financial resources available for international students at [https://studentfinance.northeastern.edu/applying-for-aid/international-students/](https://studentfinance.northeastern.edu/applying-for-aid/international-students/).

Northeastern University’s Student Financial Services Office oversees federal financial aid and alternative educational loan programs.

The Student Financial Services Office administers two forms of graduate financial aid:

1. Fellowships and assistantships — these are awarded to full-time degree candidates through the College of Social Sciences and Humanities Graduate Office, at the recommendation of its departments. There is no separate application for assistantships. Students can indicate interest in an assistantship via the “Financial Assistance” section in the online admission application.

Please note that your scholarship can take up to 8 weeks to process. Please pay any fees not covered by your award by the due date to avoid a Hold or Late Fee.

2. Federal financial aid and alternative educational loan programs — Interested applicants must complete a FAFSA form.

Questions about award and scholarship eligibility should be directed to gradecon@northeastern.edu.

TEACHING ASSISTANTSHIPS

The Department offers Teaching Assistantships or Research Assistantships to Doctoral applicants who have been admitted into the program. This is a multi-year award, generally renewable while the student is in the program and making progress toward the degree. The award includes tuition remission for up to 12 semester hours each term, plus a stipend and health insurance. The 2022-23 academic year stipend rates are $13,250 per semester for those who have achieved candidacy (ABD), and $13,000 for those who have not yet achieved candidacy.

A mandatory university-wide teaching assistantship workshop is held prior to each fall term for new Stipended Graduate Assistants (SGAs). All international SGAs must attend a mandatory International SGA Orientation as well. Returning SGA students are strongly encouraged to attend.

**Teaching and Research Assistant Pay Schedule:** SGAs are paid on the 15th and the last day of each month. If either of these days falls on a weekend day, the payday is the Friday prior.

**PLEASE NOTE PH.D. STUDENTS ARE NOT ALLOWED TO TAKE EXTRA COURSES AFTER THEY HAVE ACHIEVED CANDIDACY.**
Northeastern University Student Health Plan (NUSHP)

Effective Dates and Costs
NUSHP (https://studenthealthplan.northeastern.edu/) plans are effective the term that a student meets the minimum qualifications outlined by the State of Massachusetts. Students with a comparable domestic insurance plan are given the opportunity to waive NUSHP the term they meet the qualifications. IMPORTANT: Please note there is a deadline, usually at the beginning of the term – Please check the published deadline at https://studenthealthplan.northeastern.edu/. Eligible students need to waive each academic year. Also, here is a link to more information regarding enrolling in NUSHP after waiving and/or enrolling spouse/dependent(s) visit https://www.northeastern.edu/nushp/enrolling-nushp-waiving. Spouse and/or child(ren) rates are in addition to the student rate.

Once enrolled in the plan it is for the full policy period indicated below. After the waiver deadline, the premium is not adjusted for any reason.

Eligible students may waive NUSHP via the https://my.northeastern.edu/ student portal once they have been billed for NUSHP.

<table>
<thead>
<tr>
<th>Effective Dates and Costs 2022-2023 Academic Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>$2,499</td>
</tr>
<tr>
<td>$6,120</td>
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<tr>
<td>$4,079</td>
</tr>
</tbody>
</table>

Midyear Adjustment

Students that finished their degree requirements in December and officially graduate in January, as well as students who are exchange students for only one semester; may request a midyear adjustment in January. This request cannot be used for students who wish to cancel NUSHP. Once a student is enrolled in NUSHP, they must remain on the plan until the end of the coverage year. Requests will not be reviewed until degrees are conferred in January. The deadline to submit this request is January 31, 2023. If requested the health plan would terminate effective January 31, 2023 and a prorated credit would be posted to their account. Refunds will be processed after certificate of graduation is confirmed, typically by the end of February. The request form can be found on the Forms Page at https://studenthealthplan.northeastern.edu/forms/

For the most current information on plans and fees, please visit https://studenthealthplan.northeastern.edu/
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.

<table>
<thead>
<tr>
<th>Advisor</th>
<th>Office</th>
<th>Tel.: 617-373-</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st-Year</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ph.D.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prof. Silvia Prina</td>
<td>317 LA</td>
<td>4301</td>
<td><a href="mailto:s.prina@northeastern.edu">s.prina@northeastern.edu</a></td>
</tr>
<tr>
<td>All MS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prof. Jun Ma</td>
<td>319 HO</td>
<td>3646</td>
<td><a href="mailto:ju.ma@northeastern.edu">ju.ma@northeastern.edu</a></td>
</tr>
<tr>
<td>Prof. Aysen Tanyeri-Abur</td>
<td>310B LA</td>
<td>4531</td>
<td><a href="mailto:a.tanyeri-abur@northeastern.edu">a.tanyeri-abur@northeastern.edu</a></td>
</tr>
</tbody>
</table>
Master of Science in Economics

The Master of Science 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 MS 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 particular 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. Even the core courses incorporate application of theory and/or methods. The option to incorporate co-op (paid work for 6 months) into the program enhances the practice orientation of the degree.

The MS 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 MS 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/.

Curriculum
The MS program requires 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 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**

*Our new advanced 6000-level core courses will provide a rigorous foundation for those who may wish to pursue a Ph.D. in future, and are open to all Master’s students.

<table>
<thead>
<tr>
<th>Quantitative</th>
<th>SH</th>
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</thead>
<tbody>
<tr>
<td>ECON 5105 or 6105 (Advanced)</td>
<td>4</td>
</tr>
<tr>
<td>ECON 5140 or 6140 (Advanced)</td>
<td>4</td>
</tr>
<tr>
<td>Theory</td>
<td></td>
</tr>
<tr>
<td>ECON 5110 or 6110 (Advanced)</td>
<td>4</td>
</tr>
<tr>
<td>ECON 5120 or 6120 (Advanced)</td>
<td>4</td>
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</tbody>
</table>

<table>
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<tr>
<th>ELECTIVES</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>ECON 5200 to ECON 7772</td>
<td>16</td>
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</table>

*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.

All MS students who may be interested in pursuing a doctoral degree in the future are strongly encouraged to follow the MS Advanced Core course plan. Those who plan to apply for admission to our PhD program in Fall 2023 must complete the Fall 2022 MS Advanced Core course plan, as performance in those classes will play an important role in the PhD Admissions Committee’s deliberations, as well as the Spring 2023 MS Advanced Core course plan. Accepted students would be transitioned into the PhD program in Fall 2023. Doctoral students who join or transition to the PhD program without the MS will be awarded the MS degree when PhD 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 MS 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 close proximity to many leading tech companies makes our Seattle program well-suited to those looking for opportunities in the burgeoning tech industry.

<table>
<thead>
<tr>
<th>Required</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>CS 5800</td>
<td>4</td>
</tr>
<tr>
<td>DS 5110</td>
<td>4</td>
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<tr>
<td>Complete 4 semester hours from the following courses:</td>
<td>4</td>
</tr>
<tr>
<td>DS 5220</td>
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<tr>
<td>DS 5230</td>
<td></td>
</tr>
<tr>
<td>DS 5500</td>
<td></td>
</tr>
<tr>
<td>Economics Elective</td>
<td></td>
</tr>
<tr>
<td>Complete 4 semester hours from the following range:</td>
<td>4</td>
</tr>
<tr>
<td>ECON 5200 to ECON 7772</td>
<td></td>
</tr>
</tbody>
</table>
Optional Co-op Experience:
Requires two consecutive semesters of Co-op Work Experience and 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

Available Tracks
To help prepare students for different career paths, the department offers three tracks:
  - Quantitative Analysis
  - Academic
  - Policy

Note: all tracks in general require the 4 core 5000 level grad courses (or their 6000-level advanced equivalent courses).

Quantitative Analysis Track
ECON 7240 Workshop in Applied Econometrics
Relevant courses in Data Analytics or Data Sciences programs such as:
DA 5020 Collecting, Storing, and Retrieving Data
DA 5030 Data Mining and Machine Learning
DS 5220 Supervised Machine Learning and Learning Theory
DS 5230 Unsupervised Machine Learning and Data Mining

Academic Track
This track is primarily for students who would like to pursue a Ph.D. degree upon graduation. Students who followed this track have typically entered our own Ph.D. program or gone to other Ph.D. programs such as Cornell and Wisconsin. Note, however, students in this track are not guaranteed an admission to our own Ph.D. program, although students in this track who perform well would have a significantly higher chance to be admitted.

a) Core courses:
Math and Stat (ECON 6105)
Micro Theory 1 (ECON 6110)
Macro Theory 1 (ECON 6120)
Applied Econometrics 1 (ECON 6140)

b) Core electives:
Micro Theory 2 (7710)
Macro Theory 2 (7720)
Applied Econometrics 2 (7740)

Other elective classes

Policy Tracks
In general, students who take two courses from the designated set of relevant courses for each track can claim the track as their specialty. The relevant courses for various tracks below are suggestive. The available courses will vary year by year to some degree. A small set of courses can count for more than one track, but only one course may be double-counted for the purpose of claiming tracks. Finally, upon approval, students can take and count up to 2 courses outside the economics department.
a) Financial Economics
   ECON 7200 ST: Changing Market Technology
   ECON 7240 Workshop in Applied Econometrics
   ECON 7251 International Finance
   Relevant courses in Finance Department

b) Health Economics
   ECON 7200 ST: Health Econ & Health Care
   ECON 7240 Workshop in Applied Econometrics
   Relevant courses in Bouvé College of Health Sciences such as:
   PHTH 5234 Economic Perspectives on Health Policy

c) Industrial Organization
   ECON 7271 Industrial Organization
   ECON 7200 ST: Comp Policy & Regulation
   ECON 7200 ST: Games and Behaviors
   ECON 7240 Workshop in Applied Econometrics
   NETS 7341 Network Economics

d) International Economics
   ECON 7240 Workshop in Applied Econometrics
   ECON 7250 International Economic Development
   ECON 7251 International Finance
   ECON 7253 International Integration
   NETS 7341 Network Economics

e) Labor and Development Economics
   ECON 5291 Applied Development
   ECON 5292 Gender and Development Economics
   ECON 5293 Agriculture and Economic Development
   ECON 7240 Workshop in Applied Econometrics
   ECON 7250 International Economic Development

f) Public Economics
   PPUA 6530 State and Local Public Finance
   ECON 7200 ST: Health Econ & Health Care
   ECON 7210 Applied Microeconomic Policy Analysis
   ECON 7266 Economics of Government

g) Urban and Regional Economics
   ECON 7210 Applied Microeconomic Policy Analysis
   ECON 7260 Urban Economic Systems
   ECON 7261 Urban Economic Development
   ECON 7262 Regional Economic Theory
Navigating your way through the MS program
There are different possible course sequences for students enrolled in the MS program. One sequence applies to students who want to graduate in three semesters. The other sequence applies to students who want or need to be full time but prefer to graduate in four semesters. Sample sequences are shown below. To be considered a full-time student, however, you must take at least eight (8) semester hours (two economics courses) per semester. Students must register for 12 semester hours (three economics courses) per semester during their first two semesters to make satisfactory progress toward the degree.

### THREE-SEMESTER PLANS

<table>
<thead>
<tr>
<th>MS-REGULAR</th>
<th>FALL 2022</th>
<th>SPRING 2023</th>
<th>FALL 2023</th>
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<tbody>
<tr>
<td>ECON 5105</td>
<td>ECON 5140</td>
<td>ELECTIVE</td>
<td>ELECTIVE</td>
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<tr>
<td>ECON 5110</td>
<td>ELECTIVE</td>
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<td></td>
</tr>
<tr>
<td>ECON 5120</td>
<td>ELECTIVE</td>
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<table>
<thead>
<tr>
<th>MS-ADVANCED CORE*</th>
<th>FALL 2022</th>
<th>SPRING 2023</th>
<th>FALL 2023</th>
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### FOUR-SEMESTER PLANS

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<th>MS-REGULAR</th>
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### FOUR-SEMESTER PLAN WITH CO-OP

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<td>CO-OP Jul-Dec</td>
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<td>ECON 5110</td>
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<td>ELECTIVE (OPTIONAL for FALL CO-OP)</td>
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<td>ECON 5120</td>
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<td>ELECTIVE (if needed) OR CO-OP Jan-Jun AND ELECTIVE</td>
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<td>ELECTIVE (if needed) OR CO-OP Jan-Jun AND ELECTIVE</td>
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*Advanced applies only to the core classes, not electives. Students may choose to take any of the core classes at the advanced level, but those planning to pursue further study in economics are strongly advised to take the advanced core classes.

Some elective courses are offered every year; others are offered every other year. Please visit the Registrar’s website at [https://registrar.northeastern.edu/article/schedule-of-classes/](https://registrar.northeastern.edu/article/schedule-of-classes/) to determine what elective courses are available.

Master’s students are permitted to take two graduate courses outside of the economics department during their program. They also may, if they have satisfied the prerequisites and have gotten permission from the instructor, choose one or more courses designated for doctoral students.
MS 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 3 classes (12 credits) each semester.
- Candidates must be available for full-time 6-month position, 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 with the permission of their Co-op Coordinator and Co-op employer.

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 (typically in Canvas, deadline to be confirmed by CSSH grad office)
- 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 of coursework if they meet eligibility requirements.
2. CSSH Graduate Co-op and the Department of Economics requires 3.00 GPA to begin searching for Co-op.
3. International students can participate in co-op as curricular practical training (CPT), but may do so only after completing their first full academic year. This means they may only go on co-op in year 2. The process for applying for CPT and a Social Security number 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 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 schedule a meeting with their assigned co-op coordinator using Navigate to review their resume and goals for co-op.

5. Students get released from their co-op coordinator to begin searching and applying to job postings on NUworks.

6. Students select jobs based on qualifications and interest, and employers choose whom they want to interview and hire based on 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.

Previous Placements

- Vertex Pharmaceuticals, Corporate Real Estate co-op
- Akamai Technologies, HR Compensation Analyst
- Boston Planning & Development Agency, Research Co-op
- Sappi North America, Boston Human Resources
- MA Division of Insurance, Consumer Information Ambassador
- HR Process Improvement Assistant, MBTA
- Program Assistant, NU Global Pathways

2021-2022 academic year

- Wayfair, Employee Tech Co-op
- MBTA, Capital Programs Leadership Assistant
- Scotiabank, Quality Control Team Analyst
- Commonwealth Financial, Anti-Money Laundering Co-op

Contact List

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<tr>
<th>Program</th>
<th>MS Graduate Program Director</th>
<th>Co-op Coordinator(s), 180 RP</th>
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</table>
| MS Economics | Jun Ma ([ju.ma@northeastern.edu](mailto:ju.ma@northeastern.edu)) | Linnea Basu ([l.basu@northeastern.edu](mailto:l.basu@northeastern.edu))  
Steve Williams ([s.williams@northeastern.edu](mailto:s.williams@northeastern.edu))  
Rebecca Westerling ([r.westerling@northeastern.edu](mailto:r.westerling@northeastern.edu)) |
PlusOne Accelerated Master’s Program
(BS/MS or BA/MS)

The PlusOne accelerated Master’s Program in Economics provides the opportunity for Northeastern’s undergraduate majors to complete both the undergraduate degree program (B.S. or B.A.) and the professional master’s program (M.S.) in economics in less time than if the programs were completed sequentially.

To earn the MS degree through the Plus One Accelerated MS Program in Economics, the students need to take eight graduate level courses, the first four of which are taken as an undergraduate. The four graduate courses taken as undergraduate can count towards economic electives or general electives toward the B.S. or B.A. degrees. After the students complete the bachelor’s degree requirements and earn their B.S. or B.A. degree, they return as a graduate student for the remaining four graduate level courses and complete the master’s degree.

Admission

Undergraduate students may apply to the program as early as the end of their sophomore year or the beginning of their junior year. **Students must demonstrate a strong quantitative background.**

Please visit the PlusOne program page for more information about admissions at [https://cssh.northeastern.edu/academics/majors-minors-programs/plusone-programs/](https://cssh.northeastern.edu/academics/majors-minors-programs/plusone-programs/).

The Program

Upon admission, students are required to complete the four master’s core courses during their senior year, which must include both the fall and spring terms in the same academic year.

- ECON 5105 Mathematics and Statistics for Economists  
  or ECON 6105 Advanced Mathematics and Statistics for Economists
- ECON 5110 Microeconomic Theory or ECON 6110 Advanced Microeconomic Theory
- ECON 5120 Macroeconomic Theory or ECON 6120 Advanced Macroeconomic Theory
- ECON 5140 Applied Econometrics or ECON 6140 Advanced Applied Econometrics

Two out of four of the graduate level core courses taken as undergraduate may be counted as advanced economics electives toward the B.A. degree requirements and three of the core courses may be counted as advanced economics electives toward the B.S. degree requirements. The remaining master’s course(s) will count as free elective(s) in the undergraduate program. (Some may be taken as overloads to a student’s regular four-course undergraduate load, but overload charges will apply.)

Once the undergraduate degree requirements have been met, including the attainment of at least 128 semester hours, the undergraduate degree will be awarded and students will transition to graduate student status. Students are then required to complete an additional 16 semester hours of graduate coursework (electives) to finish the program and earn the Master’s degree. Students completing an undergraduate combined major in economics must complete all four of the M.S. electives with graduate courses in the Economics Department. Economics graduates are allowed to take two courses (with approval from the Department of Economics) outside of Economics that will count toward their MS degree.

If a student decides not to complete the graduate portion of the program all the requirements of the undergraduate degree must be completed in order to receive the B.S. or B.A. degree. Additionally, the
graduate courses used to earn the undergraduate degree cannot be used at a later date toward a graduate degree at Northeastern.

For questions:

<table>
<thead>
<tr>
<th>Jun Ma Professor</th>
<th>Teaching Professor Aysen Tanyeri-Abur</th>
</tr>
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<tbody>
<tr>
<td>MS Graduate Program Director Dean’s Leadership Fellow for Global Partnerships</td>
<td>MS Graduate Program Associate Director</td>
</tr>
<tr>
<td>319 Holmes</td>
<td>617-373-4531</td>
</tr>
<tr>
<td><a href="mailto:ju.ma@northeastern.edu">ju.ma@northeastern.edu</a></td>
<td>310B Lake Hall,</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:a.tanyeri-abur@northeastern.edu">a.tanyeri-abur@northeastern.edu</a></td>
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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 MS 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
Funding eligibility is contingent upon making satisfactory progress. See Regulations for All Students for more information.

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 (http://catalog.northeastern.edu/graduate/social-sciences-humanities/economics/) 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/.

PhD 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
- 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 PhD students starting in the Fall 2022:

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<th>Fall 2022</th>
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<td>ECON 7710</td>
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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/ogs-forms-and-guides/](https://international.northeastern.edu/ogs/ogs-forms-and-guides/)

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
Seminar series participation
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 time of their orientation.
https://cssh.northeastern.edu/economics/program/phd-in-applied-economics/phd-program-guidelines/
Industrial Organization, Competition Policy, and Regulatory Economics

In this field of expertise, economics faculty analyze and evaluate the performance of markets and devise 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.

INDUSTRIAL ORGANIZATION FACULTY

James Dana, Professor of Economics and Strategy (joint appointment with DMSB)
Professor Dana is a leading researcher in theoretical industrial organization, competitive strategy, and operations management, with emphasis on pricing under uncertainty, corporate strategies for managing demand uncertainty, and revenue management.

Jordi Jaumandreu, Visiting Professor
Professor Jaumandreu is a microeconomist, active in applied research using microeconometric techniques, particularly in the area of industrial organization. Current work includes the measurement of firms’ markups, the assessment of firm-level labor-augmenting productivity, and the measurement of firm-level demand heterogeneity, dynamic pricing and endogenous productivity determinants. His research is organized around the topics of productivity, employment, innovation, including public policy towards innovation, and firm behavior.

John Kwoka, Finnegan Distinguished Professor
Professor John Kwoka teaches and conducts research in the areas of industrial organization, antitrust, and regulatory economics. He is the author/editor of numerous books and more than 75 articles in the areas of industrial economics, antitrust, and regulation. His co-edited book of antitrust cases The Antitrust Revolution is in its sixth edition, his most recent book, Controlling Mergers and Market Power: A Program for Reviving Antitrust in America was published in 2020. For the past year, Professor Kwoka has served the Federal Trade Commission (FTC) as the Chief Economist to the Chair Lina Khan.

Imke Reimers, Assistant Professor of Economics
Professor Reimers’ research interests are in industrial organization with a focus on the interaction of new technologies and intellectual property in new and existing markets. Her paper “Digitization and Pre-Purchase Information: The Causal and Welfare Effects of Reviews and Crowd-Based Ratings” with Joel Waldfogel, was published in the American Economic Review in 2021. Her recent paper, “Digitization, Prediction, and Market Efficiency: Evidence from Book Publishing Deals” with Christian Peukert has been published in Management Science in 2022.
Labor Economics

Economics faculty in this field analyze 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.

LABOR ECONOMICS FACULTY

Shantanu Khanna, Assistant Professor of Economics and Public Policy
Professor Khanna is an applied microeconomist. His research explores issues like inequality, hiring and wage discrimination, women’s empowerment, and the impacts of public policies (especially place-based policies) on firms and workers.

Mindy Marks, Associate Professor of Economics
Professor Marks’ projects to date involve large-scale empirical evaluations that use careful statistical analysis to determine underlying causal relationships. Current research interests include the impact of occupational licensing laws on labor markets, the relationship between academic time use in college and future earnings and the impact of adverse weather events on health. Her work was published in the Review of Economics and Statistics, the Journal of Human Resources, the Journal of Law and Economics, and other outlets.

Alicia Sasser Modestino, Associate Professor of Economics
Professor Sasser Modestino is an associate professor with appointments in the School of Public Policy and Urban Affairs and the Department of Economics. Her current research focuses on labor market dynamics including skills mismatch, youth labor market attachment, migration, and the impact of health care reform on employers. She is a co-principal investigator on Russell Sage Foundation Project #85-14-05, “Upskilling During the Great Recession: Do Employers Demand Greater Skill When Workers Are Plentiful?” Her work has appeared in journals such as Regional Science and Urban Economics, Journal of Human Resources, and Health Affairs.

Shariq Mohammed, Assistant Professor of Economics
Professor Mohammed’s research interests lie at the intersection of labor economics, economic history, and development economics. His current research focuses on two central and related questions: how does access to opportunities and other socio-economic outcomes differ across groups (e.g., race, gender, caste), and more importantly, what policies can help bridge this gap.

Matthew B. Ross, Associate Professor, School of Public Policy & Urban Affairs and Economics
Professor Ross is an applied microeconomist working at the intersection of urban, public, and labor economics. His research and public engagement seek to better inform policy and positively impact society. He has published in peer-reviewed journals such as Nature, Journal of Human Resources, Criminology & Public Policy, and the Industrial and Labor Relations Review. His research has been funded by the National Science Foundation, Russell Sage Foundation, and the US Department of Transportation.

Tsegay Tekleselassie, Visting Assistant Professor of Economics
Before joining Northeastern University, Tsegay Tekleselassie was a senior/lead researcher at the Policy Studies Institute in Ethiopia. He has published in international peer-reviewed journals such as the World Economy and Applied Economics Letters.
Robert Triest, Chair and Professor of Economics
An applied economist whose research focuses on labor economics and public policy, Professor Triest’s recent work focuses on the intersection of economic circumstances and educational outcomes as well as the impact of long-term unemployment on household finances.

Shuo Zhang, Assistant Professor of Economics and Computer Science
Professor Shuo Zhang’s research interests are in labor economics, platform design and algorithmic fairness. She mainly works on the empirics of job search and matching in online labor markets, including workers’ job search behaviors, employers’ recruitment decisions, and the role of internet job platforms in online job matching.

ECONOMETRICS FACULTY

Jianfei Cao, Assistant Professor of Economics
Jianfei Cao studies applied and theoretical econometrics. His research has chiefly been in the areas of machine learning methods in economic applications, causal inference in comparative case studies, and weak identification. His most recent research has studied the use of unsupervised learning methods in forming clustering structures used in problems involving estimation and inference of causal effects.

William Dickens, University Distinguished Professor of Economics and Public Policy
Professor William Dickens holds a joint appointment in the Department of Economics and the School of Public Policy and Urban Affairs. Professor Dickens’ main research area is the cause of long-term unemployment and its consequences for monetary policy.

Jun Ma, Dean's Leadership Fellow; Professor of Economics, MS Graduate Program Director
Professor Ma’s primary research areas are macroeconomics and international finance, financial economics, applied time series econometrics, and the Chinese economy. He has published articles on journals such as Journal of Money, Credit and Banking, Journal of International Economics, and Journal of Economic Dynamics and Control. He is an elected member of the executive committee and treasurer of the Society for Nonlinear Dynamics and Econometrics.

DEVELOPMENT FACULTY

Silvia Prina, Associate Professor of Economics and Ph.D. Graduate Program Director
Professor Prina is a development economist interested in understanding the behavior of poor households for the purpose of uncovering potential strategies to improve their lives. Her first set of papers investigates how financial access, particularly via savings accounts (mobile and not) and digital credit, can affect the saving and investment behavior, networks, preferences, cognitive ability, mental health, and aspirations of the poor. A second set of papers investigates the determinants of investments in human capital and health. Her works feature rigorous empirical methods and the implementation of unique, randomized interventions to answer questions of central importance in development economics. She has been and is working on several field experiments in Mexico and Latin America, Nepal, Tanzania, Uganda, and the U.S.

Bilge Erten, Associate Professor of Economics and International Affairs
Professor Erten is an Associate Professor of Economics and International Affairs at Northeastern University. Her research interests lie in Development Economics, with a focus on Gender, Health, and Education. She studies the effects of lockdown policies on mental health and domestic violence; the causes and consequences of domestic violence; education, mental health, and violence against children; and globalization and women’s empowerment in developing countries. She published in journals such as the American Economic Journal: Applied Economics, the Review of Economics and Statistics, Journal of Economic Literature, Journal of International Economics, World Development, Feminist Economics, and Economics of Education Review.
Aleksandra Jakubowski, Assistant Professor of Economics and Global Health
Professor Jakubowski’s research lies at the intersection of health economics and public policy. She designs field experiments applying experimental and quasi-experimental methods to address the cross-cutting themes of equitable access to healthcare, intra-household dynamics in healthcare decisions, and quality of public health services in low-income settings. Specifically, she applies these strategies to assess impact of large-scale health programs on health and economic outcomes, and tests behavioral drivers of healthcare demand. Her primary geographical area of work is sub-Saharan Africa with a focus on HIV/AIDS, malaria and COVID-19.

Nishith Prakash, Professor of Economics and Public Policy (effective January 2023)

Macroeconomics Faculty

Ivan Petkov, Assistant Professor of Economics
Professor Ivan Petkov’s research interests focus on macroeconomics, finance, monetary economics, banking, and economic growth. In his dissertation he studied whether the allocation of bank credit to small businesses at distinct branches responds to liquidity increases or rise in asset prices. In a separate stream of research he also examined whether differences in cultural and institutional endowments of ancestries in U.S. counties affect economic performance. He has also studied the process of cultural assimilation of immigrants in the U.S.

Health Economics

Thomas Barnay, Visiting Professor
Professor Barnay is a Health Economist. He was the 2021–22 French Harkness Fellow (the Commonwealth Fund) and Visiting Professor in Harvard Medical School (Department of Health Care Policy). In France, he is Full Professor in Economics at University Paris-Est Créteil (currently on leave) and he was Head of the Paris South-East unit research in economics (ERUDITE). His research deals with health, working conditions, and employment, C-19 and mental issues, with a public health policy dimension.

Household Finance

Andrés Shahidinejad, Assistant Professor of Economics and Finance
Professor Shahidinejad received his PhD in Economics from the University of Chicago, Booth School of Business in 2022. His primary research interests include household finance, public economics, banking and nonprofit organizations.

Study in Economics

M. Shahid Alam, Professor of Economics
Professor Alam has been teaching economics at Northeastern University since 1988. Over the past several years, he has taught the following undergraduate courses: “Economic History of the Middle East”, “History of the Global Economy”, “Critique of Capitalism and Development Economics.” In Spring 2014, he offered a new course – “Critical Perspectives on Economics.” His research interests extend over the following questions – Dynamics of capitalism; Alternative approaches to the study of economics; Critiques of mainstream economics; Political economy of corruption; Economic stagnation in the Middle East since 1500s; and Qur’anic reasoning.
**Full – Time Faculty**

<table>
<thead>
<tr>
<th>NAME</th>
<th>TITLE and AFFILIATION</th>
<th>PRIMARY FIELD*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shahid Alam</td>
<td>Professor</td>
<td>Political Economy</td>
</tr>
<tr>
<td>Ilter Bakkal</td>
<td>Assistant Teaching Professor</td>
<td>Applied Microeconomics</td>
</tr>
<tr>
<td>Thomas Barnay</td>
<td>Visiting Professor</td>
<td>Health Economics</td>
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<tr>
<td>Jianfei Cao</td>
<td>Assistant Professor</td>
<td>Econometrics</td>
</tr>
<tr>
<td>James Dana</td>
<td>Professor; Economics and DMSB</td>
<td>Industrial Organization</td>
</tr>
<tr>
<td>William Dickens</td>
<td>Distinguished Professor; Economics and SPPUA</td>
<td>Labor Economics</td>
</tr>
<tr>
<td>Jill Dupree</td>
<td>Associate Teaching Professor</td>
<td>Economic History</td>
</tr>
<tr>
<td>Bilge Erten</td>
<td>Associate Professor; Economics and International Affairs</td>
<td>Development Economics</td>
</tr>
<tr>
<td>Frank Georges</td>
<td>Teaching Professor</td>
<td>Applied Microeconomics</td>
</tr>
<tr>
<td>Mark Hooker</td>
<td>Associate Teaching Professor</td>
<td>Macroeconomics</td>
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<tr>
<td>Aleksandra Jakubowski</td>
<td>Assistant Professor, Bouve and Economics</td>
<td>Development Economics</td>
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<tr>
<td>Donghee Jo</td>
<td>Assistant Professor</td>
<td>Political Economy</td>
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<tr>
<td>Nancy Kimelman</td>
<td>Assistant Teaching Professor</td>
<td>Macroeconomics</td>
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<tr>
<td>Shantanu Khanna</td>
<td>Associate Professor; SPPUA and Economics</td>
<td>Labor Economics</td>
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<tr>
<td>John Kwoka</td>
<td>Neal F. Finnegan Distinguished Professor</td>
<td>Industrial Organization</td>
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<tr>
<td>Jun Ma</td>
<td>Professor</td>
<td>Macroeconomics</td>
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<tr>
<td>Mindy Marks</td>
<td>Associate Professor</td>
<td>Labor Economics</td>
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<tr>
<td>Alicia Sasser Modestino</td>
<td>Associate Professor; SPPUA and Economics</td>
<td>Labor Economics</td>
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<td>Shariq Mohammed</td>
<td>Assistant Professor</td>
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<td>Imke Reimers</td>
<td>Associate Professor</td>
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<tr>
<td>Matthew Ross</td>
<td>Associate Professor; Economics and SPPUA</td>
<td>Applied Microeconomics</td>
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<tr>
<td>Andres Shahidinejad</td>
<td>Assistant Professor, DMSB and Econ</td>
<td>Household Finance</td>
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<td>Xiaolin Shi</td>
<td>Assistant Professor</td>
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<td>Peter Simon</td>
<td>Teaching Professor</td>
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<tr>
<td>Mike Stone</td>
<td>Teaching Professor</td>
<td>Law &amp; Economics</td>
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<tr>
<td>Aysen Tanyeri-Abur</td>
<td>Teaching Professor</td>
<td>Development Economics</td>
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<tr>
<td>Tsegay Teklesellassie</td>
<td>Visiting Assistant Professor</td>
<td>Labor Economics</td>
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<tr>
<td>Robert Triest</td>
<td>Professor &amp; Chair</td>
<td>Labor Economics</td>
</tr>
<tr>
<td>Madhavi Venkatesan</td>
<td>Associate Teaching Professor</td>
<td>Economics of Sustainability</td>
</tr>
<tr>
<td>Gustavo Vicentini</td>
<td>Teaching Professor</td>
<td>Industrial Organization</td>
</tr>
<tr>
<td>Shuo Zhang</td>
<td>Assistant Professor</td>
<td>Labor Economics</td>
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</table>

*Only one field is shown, but many faculty work across several fields of interest*
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.

2023 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.

<table>
<thead>
<tr>
<th>Date and time:</th>
<th>Examination:</th>
<th>Attempt:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4th week of May 2023</td>
<td>Qualifying Exams</td>
<td></td>
</tr>
<tr>
<td>2nd week of June 2023</td>
<td>Microeconomics</td>
<td>1st take</td>
</tr>
<tr>
<td>January 2024, 1st week of class</td>
<td>Macroeconomics</td>
<td>1st take</td>
</tr>
<tr>
<td>2nd week August 2023</td>
<td>Microeconomics</td>
<td>2nd take</td>
</tr>
<tr>
<td>4th week August 2023</td>
<td>Macroeconomics</td>
<td>2nd take</td>
</tr>
<tr>
<td>4th week of May 2024</td>
<td>Econometrics</td>
<td>2nd take</td>
</tr>
</tbody>
</table>

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.

DISSERATION
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/#proquest. 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 have to be approved by the PhD 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 myNortheastern. (Note: you must do this regardless of whether you plan to participate in a ceremony. If you receive an error message via myNortheastern, please contact your department’s administrator (Jacquetta Hester) as your “expected graduation date” may need to be updated.) Information about applying to graduate can be found here:
   
   https://commencement.northeastern.edu/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 Graduate Administrative Coordinator 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.
   • Prepare and print your Northeastern University Graduate Approval Record at https://cssh.northeastern.edu/wp-content/uploads/2014/10/Graduate-Approval-Record.pdf
   • 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://sed-ncses.org/).
   • 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.
Economics Courses

MANY CLASSES ARE NOT OFFERED EVERY YEAR OR EVERY SEMESTER. PLEASE VISIT THE REGISTRAR’S WEBSITE FOR CURRENT COURSE OFFERINGS.

ECON 6105. Advanced Mathematics and Statistics for Economists. (4 Hours)
Covers the fundamental quantitative methods in economics. The first part of the course focuses on the role of mathematical models in economics, the applications of linear algebra, multivariate calculus, and static optimization theory. Studies statistics in the second part of the course, and offers students an opportunity to learn how to apply proper methods of empirical testing in economics. Additionally, introduces the statistical language R to equip students to complete most of the assignments in statistics. This is an advanced graduate course.

ECON 6110. Advanced Microeconomic Theory. (4 Hours)
Discusses consumer choice, classical demand theory, production, choice under uncertainty, competitive markets, and market power, which provide the theoretical foundation of more advanced topics that can be used as the basis to design empirical applications. Requires a strong background in linear algebra, multivariate calculus, and optimization theory for success in the course. A good undergraduate intermediate-level microeconomic theory course is also helpful. This is the first advanced graduate-level course on microeconomic theory for graduate students.

ECON 6120. Advanced Macroeconomic Theory. (4 Hours)
Develops basic models used by macroeconomists to study long-run economic growth with exogenous savings and endogenous saving decisions by optimizing households. Studies models incorporating endogenous technology improvements, including the model of increasing product variety and the model of Schumpeterian growth. In the second part of the course, basic models used by macroeconomist are developed to explain short-term fluctuations in aggregate economic variables. Develops a simple real business cycle model, which is subsequently enriched by relaxing assumptions of perfect competition on the production side and monetary neutrality. This is the first advanced graduate-level course introducing modern theories of the aggregate economy.

ECON 6140. Advanced Applied Econometrics. (4 Hours)
Offers students an opportunity to obtain the theoretical tools, computer skills, and experience using econometrics needed to appreciate and do high-quality applied research in economics. Emphasizes understanding how the properties of estimators can be found and their implications for applied research. Introduces the programming language Python, which is integrated into the course. Focuses on methods that are most useful in microeconomic analysis, including classical linear regressions, Gauss-Markov theorem and hypothesis testing, endogeneity, instrumental variable estimation and causality analysis, heteroskedasticity and serial correlations, nonlinearity, panel data methods, difference-in-difference, and regression discontinuity. This is the first advanced graduate-level course on econometrics.
Prerequisite(s): ECON 6105 with a minimum grade of C-

ECON 6954. Co-op Work Experience - Half-Time. (0 Hours)
Provides eligible students with an opportunity for work experience. May be repeated without limit.

ECON 6955. Co-op Work Experience Abroad - Half-Time. (0 Hours)
Provides eligible students with an opportunity for work experience. May be repeated without limit.
ECON 6962. Elective. (1-4 Hours)
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

ECON 6964. Co-op Work Experience. (0 Hours)
Provides eligible students with an opportunity for work experience. May be repeated without limit.

ECON 6965. Co-op Work Experience Abroad. (0 Hours)
Provides eligible students with an opportunity for work experience abroad. May be repeated without limit.

ECON 7200. Topics in Applied Economics. (4 Hours)
Presents an application of microeconomic and macroeconomic theory, as well as quantitative methods, to a variety of social issues, both domestic and international. May be repeated without limit.

ECON 7240. Workshop in Applied Econometrics. (4 Hours)
Offers an intensive, hands-on application of econometrics to research problems in economics, using current econometric software packages. Both cross-section and time-series techniques are used and applied to different areas of economics, such as global economics, labor economics, urban economics, public finance, policy evaluation, and so on. Students are expected to complete a written applied econometrics project and present the results to the class.

Prerequisite(s): ECON 5140 with a minimum grade of C- or ECON 5140 with a minimum grade of C-

ECON 7250. International Economic Development. (4 Hours)
Covers leading research topics in development economics, with a particular focus on patterns of global inequality and globalization, effects of trade policy on labor market adjustment, gender and development, education and health, long-term effects of institutions, commodity price dynamics, and Dutch disease. Course objectives include exploring the cutting-edge literature emerging on these topics and improving understanding of the most recent empirical methods used in the literature. Offers students an opportunity to learn how to apply econometric techniques to particular research questions while evaluating advantages and disadvantages of using different approaches and to demonstrate understanding of difference-in-differences analysis, instrumental variables, randomized evaluation, regression discontinuity, and structural vector autoregressive models. Students critically assess the limitations of these methods.

ECON 7251. International Finance. (4 Hours)
Introduces students to international finance and equips them with tools and methods to study and analyze international economic issues and problems. Topics include the foreign exchange market, balance of payments, international investment and banking, monetary and fiscal policy in an open economy, economic integration and monetary unification, the international monetary system, and optimum currency areas. Each student is required to write a short paper on a current problem in international finance.

ECON 7260. Urban Economic Systems. (4 Hours)
Examines urban economic systems including systematic relationships among cities, as well as those within cities. The portion of the course devoted to intermetropolitan analysis covers central place theory, the location of economic activity, and intermetropolitan trade. Intrametropolitan analysis includes urban form and land use, land use controls, and local government systems.

Prerequisite(s): (ECON 5110 with a minimum grade of C- or ECON 5110 with a minimum grade of D- ); (ECON 5140 with a minimum grade of C- or ECON 5140 with a minimum grade of D- )

ECON 7261. Urban Economic Development. (4 Hours)
Examines urban economic development processes. Topics include models and techniques for describing and evaluating urban economies; development strategies and tools; commercial, industrial, and housing development; and problems of poverty and housing.
ECON 7262. Regional Economic Theory. (4 Hours)
Analyzes the following topics: comparative costs and location analysis for industry, various indices of location measures, land use theories, interregional labor migration, interregional trade, regional development, regional equilibrium analysis, regional and interregional input-output analysis, and econometric models for regional analysis.
Prerequisite(s): ECON 5110 with a minimum grade of C- or ECON 5110 with a minimum grade of C-

ECON 7266. Economics of Government. (4 Hours)
Presents an overview of the economics of government and the role of public policy. Develops guidelines to determine which economic activities are best performed by government and which are not. Topics include public choice, public goods, externalities, public enterprise, and efficiency and equity effects of alternative tax systems.
Prerequisite(s): ECON 5110 with a minimum grade of C- or ECON 5110 with a minimum grade of C-

ECON 7270. Economics of Law and Regulation. (4 Hours)
Relies on models of welfare economics to analyze the impact of laws, regulation, and deregulation, in terms of both positive and normative aspects. Topics include economic analysis of market failures and government remedies; property, tort, and contract law; and economic and social regulation. Students are encouraged to develop critical skills in analyzing various types of economic policy. Requires knowledge of microeconomics.

ECON 7271. Industrial Organization. (4 Hours)
Analyzes the market structure of industries and strategic behavior by businesses, and the effect that these have on economic performance. Draws on economic theory, empirical evidence, and case studies. Also includes a brief discussion of governmental policies such as antitrust, regulation, and public ownership/privatization.
Prerequisite(s): ECON 5110 with a minimum grade of C- or ECON 5110 with a minimum grade of D-

ECON 7710. Microeconomic Theory 2. (4 Hours)
Continues ECON 5110, building on its theories. Topics include game theory, economics of information, incentive theory, welfare economics, general equilibrium, and social choice theory.
Prerequisite(s): ECON 5110 with a minimum grade of B- or ECON 5110 with a minimum grade of B-

ECON 7720. Macroeconomic Theory 2. (4 Hours)
Continues ECON 5120. Offers an advanced course in macroeconomic analysis where economic theory and econometric evidence are brought together to explain economic events and changes at the macro level including economic growth, changes in unemployment and inflation rates, and business cycles. Topics include the Solow growth model, overlapping-generations models, research and development models of growth, real-business-cycle theory, Keynesian theories of economic fluctuations, microfoundations, consumption, investment, unemployment, inflation and monetary theory, and budget deficits and fiscal policy.
Prerequisite(s): (ECON 5120 with a minimum grade of B- or ECON 5120 with a minimum grade of B- ); (ECON 5140 with a minimum grade of B- or ECON 5140 with a minimum grade of B- )

ECON 7740. Applied Econometrics 2. (4 Hours)
Continues ECON 5140. Extends students’ understanding of econometrics beyond the topics covered in the earlier course. Students develop and complete an econometric research project using methods covered. Topics include models with multiple equations, nonlinear regression models, asymptotic theory, maximum likelihood, discrete choice models, limited dependent variables and duration models, panel data, regression models for time-series data, and unit roots and cointegration.
Prerequisite(s): ECON 5140 with a minimum grade of B- or ECON 5140 with a minimum grade of B-
ECON 7763. Labor Market Analysis. (4 Hours)
Offers a theoretical and methodological survey of the field of neoclassical labor market analysis at the PhD level. Topics include 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. Other topics that may be included are unions, unemployment, labor mobility, alternative models of labor markets, labor productivity and growth, and income distribution and poverty.
Prerequisite(s): ECON 7710 with a minimum grade of C- ; ECON 7740 (may be taken concurrently) with a minimum grade of C-

ECON 7764. Topics in Labor Economics. (4 Hours)
Covers the theoretical and empirical issues surrounding current topics in the area of labor economics. Topics may vary each time the course is offered 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).
Prerequisite(s): ECON 7763 with a minimum grade of C-

ECON 7771. Framework of Industrial Organization. (4 Hours)
Sets out the analytical framework of industrial organization economics-the basis and method for evaluating the performance of markets and firms and for prescribing policies for improvement. Topics include size and structure of firms, market concentration, pricing in oligopoly and other markets, entry and entry deterrence strategies, and advertising and product strategies. Each of these topics is examined using a range of tools including microeconomic theory, game theory, and statistical analysis.
Prerequisite(s): ECON 7710 with a minimum grade of B- ; ECON 7740 with a minimum grade of B-

ECON 7772. Public Policy Toward Business. (4 Hours)
Covers the three major facets of public policy toward business: antitrust, regulation, and privatization. Demonstrates how economic theory and evidence are brought to bear on practical questions of market failure and policies to remedy such failure. Topics include mergers, collusion and facilitating practices, predatory conduct, cost of service regulation, price caps and incentive regulation, deregulation, and public enterprise vs. privatization. Policies are analyzed for their rationale, techniques for implementation, and effects as measure in the context of actual experience in the United States and other countries.
Prerequisite(s): ECON 7771 with a minimum grade of C-

ECON 7962. Elective. (1-4 Hours)
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

ECON 7976. Directed Study. (1-4 Hours)
Offers independent work under the direction of members of the department on a chosen topic. Course content depends on instructor. May not be substituted for requirements leading to a BA or BS in economics. May be repeated without limit.

ECON 7990. Thesis. (1-4 Hours)
Provides thesis supervision by members of the department. May be repeated without limit.

ECON 8550. Internship In Economics. (1-4 Hours)
Comprises academic credit for internship work in economics. May be repeated without limit.
ECON 8960. Exam Preparation—Doctoral. (0 Hours)
Provides students with the opportunity to prepare for the qualifying exam during the semester in which they are registered for this course. Registration in this course constitutes full-time status.

ECON 8986. Research. (0 Hours)
Offers an opportunity to conduct full-time research under faculty supervision. May be repeated without limit.

ECON 9000. PhD Candidacy Achieved. (0 Hours)
Indicates successful completion of the doctoral comprehensive exam.

ECON 9986. Research. (0 Hours)
Offers an opportunity to conduct full-time research under faculty supervision. May be repeated without limit.

ECON 9990. Dissertation Term 1. (0 Hours)
First of two consecutive semesters to meet the residency requirement of the doctoral program.
Prerequisite(s): ECON 9000 with a minimum grade of S

ECON 9991. Dissertation Term 2. (0 Hours)
Offers dissertation supervision by members of the department.
Prerequisite(s): ECON 9990 with a minimum grade of S

ECON 9996. Dissertation Continuation. (0 Hours)
Requires registration for those students who have completed the doctoral program's residency requirement, but who have not yet completed the dissertation.
Prerequisite(s): ECON 9991 with a minimum grade of S or Dissertation Check with a score of REQ
Graduate Resources

All students should read this document and the Graduate Catalog (https://catalog.northeastern.edu/graduate/) and, using the included schedule of graduate course offerings from the Department, plan their program to meet all requirements as stated in the catalog. Please note that all courses are not offered every semester, so program planning is important.

Students should inform the Graduate Administration Coordinator and the Registrar's Office of any changes in address, telephone number, or e-mail. It is important that you establish an e-mail account as soon as possible, as it is often the quickest means of communicating with you. It is important that you keep us informed whenever this information changes so that we know how to get in touch with you.

The information below will help during your studies at Northeastern and will connect you with people who can answer questions about things like billing, housing, and student life.

| Resources for New CSSH Graduate Students | https://cssh.northeastern.edu/resources/resources-for-new-graduate-students/ |
| Resources for Current CSSH Graduate Students | https://cssh.northeastern.edu/resources/resources-for-current-graduate-students/ |
| The Office of Global Services (OGS)  
OGS is an active resource to 13,000 international students and scholars from 147 different nations across the world. We provide the professional expertise and support you need to maintain compliance through immigration, academic, and your employment experiences—helping you remain a valuable member of the Northeastern community. | https://international.northeastern.edu/ogs/ |
| 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. The Graduate Ombuds Office is open and available to all graduate students across Northeastern’s main and regional campuses. | https://graduateombuds.northeastern.edu/ |
Academic Integrity Policy

The Policy
A commitment to the principles of academic integrity is essential to the mission of Northeastern University. The promotion of independent and original scholarship ensures that students derive the most from their educational experience and their pursuit of knowledge. Academic dishonesty violates the most fundamental values of an intellectual community and undermines the achievements of the entire University.

As members of the academic community, students must become familiar with their rights and responsibilities. In each course, they are responsible for knowing the requirements and restrictions regarding research and writing, examinations of whatever kind, collaborative work, the use of study aids, the appropriateness of assistance, and other issues. Students are responsible for learning the conventions of documentation and acknowledgment of sources in their fields. Northeastern University expects students to complete all examinations, tests, papers, creative projects, and assignments of any kind according to the highest ethical standards, as set forth either explicitly or implicitly in this Code or by the direction of instructors.

The following is a broad overview, but not an all-encompassing definition, of what constitutes a violation of academic integrity.

Cheating: The University defines cheating as using or attempting to use unauthorized materials, information, or study aids in any academic exercise. When completing any academic assignment, a student shall rely on his or her own mastery of the subject. Examples include, but are not limited to:
Unauthorized use of aids such as but not limited to notes, text, the internet, cell phones, etc., to complete any academic assignment.

- Unauthorized use of aids such as but not limited to notes, text, the Internet, cell phones, etc. to complete any academic assignment.
- Copying from another student’s academic work.
- Unauthorized communication during an examination.
- Handing in the same paper for more than one course without explicit permission from the instructor(s).
- Intentionally viewing a test before it is administered.
- Storing notes in a portable electronic device for use during an examination.

Fabrication: The University defines fabrication as falsification, misrepresentation, or invention of any information, data, or citation in an academic exercise. Examples include, but are not limited to:

- Inventing data, facts, or sources for an academic assignment.
- Altering the results of a lab experiment or survey.
- Citing a source in a bibliography that was not used.
- Stating an opinion as a scientifically proven fact.

Plagiarism: The University defines plagiarism as using as one’s own the words, ideas, data, code, or other original academic material of another without providing proper citation or attribution. Plagiarism can apply to any assignment, either final or drafted copies, and it can occur either accidentally or deliberately. Claiming that one has “forgotten” to document ideas or material taken from another source does not exempt one from plagiarizing. The following sources require citation:

- Word-for-word quotations from a source, including another student’s work.
- Paraphrasing (using the ideas of others in your own words).
- Unusual or controversial facts not widely recognized.
- Audio, video, digital, or live exchanges of ideas, dialogue, or information.
Students unclear as to whether or not a source requires citation should speak with their professor or consult the Writing Center in 412 Holmes Hall.

**Unauthorized Collaboration:** The University defines unauthorized collaboration as instances when students submit individual academic works that are substantially similar to one another. While several students may have the same sourcematerial, any analysis, interpretation, or reporting of data required by an assignment must be each individual’s independent work unless the instructor has explicitly granted permission for group work. Examples include, but are not limited to:

- Submitting work that closely matches that of another student, even when the work is to be original to the studenthandling in the assignment.
- Sharing a take-home examination, case write-up, lab report, or any other assignment with a peer without expresspermission from the instructor.

**Participation in Academically Dishonest Activities:** The University defines participation in academically dishonest activities as any action taken by a student with the intention of gaining an unfair advantage over other students. Examples include, but are not limited to:

- Misrepresenting oneself or one’s circumstances to an instructor.
- Stealing an examination.
- Purchasing a pre-written paper.
- Selling, loaning, or otherwise distributing materials intended for the purpose of cheating, plagiarism, or otheracademically dishonest acts.
- Destroying, altering, stealing, or forging another student’s work, library materials, laboratory materials, academic records, course syllabi, or examination/course grades.
- Intentionally missing an examination or assignment deadline to gain an unfair advantage.
- Forging information or signatures on official University documents.

**Facilitating Academic Dishonesty:** The University defines facilitating academic dishonesty as intentionally or knowinglyhelping or contributing to the violation of any provision of this policy. Examples include, but are not limited to:

- Doing academic work for another student.
- Making available previously used academic work for another individual who intends to resubmit the work for credit.

**Obligation to Uphold Academic Integrity:** All members of the Northeastern University community have a role in upholding the Academic Integrity Policy. Any member of the community who witnesses a violation of this policy should report it to the appropriate faculty member or the Office of Student Conduct & Conflict Resolution (OSCCR). All instructors are required to refer to Northeastern’s Academic Integrity Policy in their course syllabi.

**Options for Instructors Reporting Alleged Violations of the Academic Integrity Policy:** A faculty member who suspects astudent in his or her class, or working under his or her direction, of violating the Academic Integrity Policy can choose to:

- File official charges with the OSCCR, or
- Submit the complaint as an “information only” case to request that the incident be kept “on file” for the student.

An instructor who believes that a student made an unintentional mistake and who does not want to file an official complaint may submit an “information only” complaint. The faculty member will speak with the student suspected of violating the policy before sending forward a complaint. OSCCR will inform the student via e-mail when it receives an “information only” complaint. This correspondence will provide the student with resources to avoid potential future violations as well as notice that another “information only” complaint for an Academic Integrity violation may result in an official charge and meeting with a member of the OSCCR staff. When an “information only” complaint is received by OSCCR for a student who already has one or more
“information only” complaints on file, OSCCR reserves the right to determine whether there are sufficient facts in the new complaint to support a charge of an Academic Integrity violation. The Director of OSCCR will review all complaints submitted against a student to determine whether sufficient evidence for a violation of the Academic Integrity Policy exists. If the Director determines that the evidence is sufficient, the case will be assigned to a staff member within the OSCCR. The staff member will assign the case to an Administrative Hearing or to the Student Conduct Board as appropriate.

**Sanctions:** Hearing Officers and the Student Conduct Board have discretion to impose sanctions for a Responsible finding of an Academic Integrity violation that range in severity from a written warning to expulsion and include an action taken by the student to help rebuild trust within the community. Hearing officers will take the following into consideration when determining appropriate sanctions for violations of the Academic Integrity policy.

- Nature of the violation(s)
- Severity of the damage, injury, or harm resulting therefrom
- Student’s past disciplinary record
- Mitigating circumstances
- Aggravating circumstances

**Appeals:** Students may appeal the disciplinary actions of an Academic Integrity violation on the three grounds identified in the Code of Student Conduct. The Appeals Process outlined in the Code of Student Conduct will be used for such appeals. Please refer to the Code of Student Conduct for a complete description and explanation of the Appeals Process.

**Grading Authority:** OSCCR does not have authority over assignment or course grades. Therefore, a student who violates Northeastern University’s Academic Integrity Policy may also be subject to academic penalties at the discretion of the instructor in the course. This can result in, but is not restricted to, the student failing the course. A student with questions about the Academic Appeals process should contact the academic advisor to review that process.

**Economics Department Policy on Academic Dishonesty**

Any faculty member who suspects that a student has committed an act of academic dishonesty should confront the behavior immediately by arranging to meet with the student to discuss the issue. If the act of academic dishonesty is confirmed by either the student or other evidence, the student should be assigned an ‘F’ grade for the course and referred to the Office of Student Conduct and Conflict Resolution for further disciplinary action (see ‘Teaching and Advising Policy and Procedures,’ Office of the Provost, p. 6) in accordance with the Academic Honesty and Integrity Policy.

In the case that there is a disagreement between the student and faculty member as to whether an act of academic dishonesty occurred, the matter should be referred to the OSCCR for adjudication. If OSCCR determines that an act of academic dishonesty did occur, the student should be assigned an ‘F’ grade for the course. In the event that the act of dishonesty occurs on a final exam, the student should be assigned no grade on the submitted grade sheet, to be amended to the appropriate letter grade following discussion with the student.

A student who observes an act of academic dishonesty being committed by another student should report it to the faculty member responsible for the class.

Consistent with university policy (see Academic Honesty and Integrity Policy) the Department encourages all faculty members to include this policy on their syllabi for undergraduate classes.
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.
A Roadmap to Guide Graduate Students to University Resources
Northeastern is committed to providing graduate students with a stimulating and safe educational environment. Students pursuing research degrees, such as the Ph.D., spend much of their education in their research groups and with their research advisors.

Resources are available to support Northeastern graduate students as they navigate their research groups, academics, professional development and wellness needs. Following is a roadmap to resources available to graduate students. Refer to the Ph.D. Network Resources Page (https://phd.northeastern.edu/network/resources/) for additional resources and information. The Graduate Resource Summary is a pamphlet available from the Ph.D. Network for distribution.

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. Students are encouraged to submit funding requests **two months prior to the event** to allow major expenses to be paid in advance (by the student’s department) if an award is given. Requests for travel funding are reviewed the first week of each month. All requests made by the last day of the previous month will be reviewed with decisions announced within 2 weeks. It is expected that requests for travel funding will be matched with another source and does not exceed 50% of the total cost of the travel. For example, a trip that costs $800 will be awarded a maximum of $400 in Ph.D. Travel Funding (not $500). The student’s advisor, department, or college will be expected to contribute a minimum matching $400.

Please read the **Ph.D. Network Travel Funding Policy** at [https://phd.northeastern.edu/phd-network-travel-funding-policy/](https://phd.northeastern.edu/phd-network-travel-funding-policy/) before applying. In addition to answering the questions below, you will be asked to upload three documents as pdf files:

1. A short proposal describing how you intend to use Ph.D. Network travel funds.
   Upload a pdf file consisting of your proposal for the use of the Ph.D. Network travel funds. Your Proposal should include, in this order:
   
   a) Describe the purpose of the travel
   b) Describe the visibility to you and your Ph.D. program resulting from the travel
   c) Describe the benefit to your dissertation research and to your career
   d) A detailed travel budget including transportation, accommodation, up to $40/day for food, registration fee(s), other anticipated expenses, **in this format:**

| Conference registration fee | $xxx |
| Transportation to and from (detailed) |  |
| Lodging |  |
| Meals – up to $40 per day including travel day(s) |  |
| Other anticipated expenses |  |
| Total anticipated cost |  |
| Explain the source of matching funds |  |
   
   e) Include a description of outcomes if the requestor has received Ph.D. Network travel funds previously
   f) Support letter from your research advisor / Ph.D. program / department describing the source of matching funds.
2. Upload a letter (in pdf-format) hand-signed by the party responsible for the matching funds. The letter should include the $$ value of the funding contribution and an administrative contact who will facilitate the reimbursements. The letter should include a brief description of the value of the event to you, Ph.D. program, department/college. (The Graduate Student Government’s Individual/Conference Funding Advisor Confirmation Form is for master’s students and will not be accepted.) In the event that matching funds are not available but all other conditions are met, the PH.D. Network will contribute up to $300 in support.

3. Acceptance letter for any presentation (paper or poster), role or relevant invitation applicable to your attendance at the meeting.
Title IX Policy and Procedures

On May 6, 2020, the Department of Education issued new regulations mandating how all colleges and universities must investigate and adjudicate allegations of violations under Title IX, the federal law that prohibits discrimination on the basis of sex in any federally funded education program or activity.

As a result, Northeastern was required to update its Title IX Policy to ensure the university’s compliance with these new federal regulations. Despite these changes that went into effect on August 14, 2020, Northeastern remains steadfast in its commitment to maintaining a safe living, learning and working environment for all, and one in which those impacted by sexual violence always have access to vital community resources and support.

Title IX Policy

Northeastern University is committed to providing equal opportunity to its students and employees, and to eliminating discrimination when it occurs. In furtherance of this commitment, Northeastern University strictly prohibits discrimination or harassment on the basis of race, color, religion, religious creed, genetic information, sex, gender identity, sexual orientation, age, national origin, ancestry, veteran, or disability status.

The Northeastern University Title IX policy articulates how the University will respond to reported allegations of sexual harassment involving students, including sexual assault, and provides a consolidated statement of the rights and responsibilities under University policies and Title IX, as amended by the Violence Against Women Reauthorization Act of 2013. The policy describes how areas within the University will coordinate the provision of interim remedies and the prompt and effective investigation of allegations of Prohibited Offenses.

This policy applies to all members of the University community, including students and prospective students, employees and prospective employees, faculty, staff and volunteers in connection with University activities. It further applies to on- or off-campus behavior involving students.

Non-Retaliation Policy

The Grievance Procedure and Title IX Policy also prohibits retaliation for asserting or otherwise participating in claims of discrimination. It is unlawful to take adverse actions against any member of the Northeastern community for filing a complaint of harassment or discrimination, or for cooperating in an investigation of such a complaint. Retaliation against a member of the Northeastern community who, in good faith, reports alleged harassment or who participates in an investigation is a violation of the policy and is subject to appropriate discipline. Retaliation may have an adverse impact in the following areas: hiring, firing, promotions, demotions, compensation, benefits, grading, pressure to withdraw from class, ignoring, refusing requests for assistance. This list is not exhaustive.

The University will not tolerate retaliation against any person who in good faith makes a report of a Prohibited Offense. Any person who retaliates directly or indirectly against a Victim, witness, person reporting a Prohibited Offense, a respondent and/or charged party or any person involved in the investigation of a Prohibited Offense will be subject to discipline, up to and including termination (if an employee) or expulsion (if a student).
Policy on Non-Fraternization

Northeastern University strives to provide an environment for students, faculty and staff that is respectful, fair and free of unlawful harassment or discrimination. In keeping with its commitment to provide equal opportunity to students, faculty and staff, and in order to avoid potential conflicts of interest, favoritism, exploitation, harassment or breaches of professional standards, the University’s Policy on Non-Fraternization prohibits romantic or sexual relationships where there is supervision, direction or control between the parties.

Policy on Sexual and Gender-Based Harassment

Northeastern University is committed to providing equal opportunity to its students and employees in an environment free of Sexual and Gender-Based harassment. Every member of the Northeastern community, including students, faculty, staff, contractors, alumni, parents, and visitors may have rights and/or duties under the Policy on Sexual and Gender-Based Harassment.

Policy on Equal Opportunity

The Policy on Equal Opportunity strictly prohibits discrimination or harassment on the basis of race, color, religion, religious creed, genetic information, sex, gender identity, sexual orientation, age, national origin, ancestry, veteran or disability status.

Equal Opportunity Complaint Procedure

The Equal Opportunity Complaint Procedure sets forth the options and steps for reporting allegations of discrimination and harassment and/or retaliation

IMPORTANT DOCUMENTS

- Title IX Policy [https://cpb-us-w2.wpmucdn.com/sites.northeastern.edu/dist/b/620/files/2020/09/Policy_on_Rights_and_Responsibilities_Under_Title_IX.pdf](https://cpb-us-w2.wpmucdn.com/sites.northeastern.edu/dist/b/620/files/2020/09/Policy_on_Rights_and_Responsibilities_Under_Title_IX.pdf)
- Policy on Sexual and Gender-Based Harassment (PDF) [https://www.northeastern.edu/policies/pdfs/Policy_Prohibiting_Sexual_and_Gender-Based_Harassment.pdf](https://www.northeastern.edu/policies/pdfs/Policy_Prohibiting_Sexual_and_Gender-Based_Harassment.pdf)
Nondiscrimination Policies

Northeastern University is committed to providing a living, learning, and working environment free from discrimination and harassment and does not discriminate on the basis of race, color, religion, genetic information, sex, gender, gender identity, sexual orientation, age, national origin, ancestry, disability, or veteran status in admission to, access to, treatment in, or employment in its programs and activities.

Links to the university’s nondiscrimination policies and its grievance procedures are available at the Office for University Equity and Compliance at https://www.northeastern.edu/ouec/. Inquiries regarding the university’s nondiscrimination policies may be directed to:

Office for University Equity and Compliance
125 Richards Hall
Northeastern University
Boston, Massachusetts 02115
617.373.4644
ouec@northeastern.edu

The university strongly encourages any person to report information relating to alleged discrimination or harassment to the OUEC by completing the form available here (https://cm.maxient.com/reportingform.php?NortheasternUniv&layout_id=7) or through any of the contact options listed above. OUEC’s policies, as well as other helpful information, can be found at the OUEC website at https://www.northeastern.edu/ouec/

Disability Resource Center (https://drc.sites.northeastern.edu/)
The Disability Resource Center provides a variety of disability-related services and accommodations to Northeastern University’s students with disabilities. Northeastern University’s compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 are coordinated by the senior director of the Disability Resource Center. Persons requiring information regarding the Disability Resource Center should contact the center at 617.373.2675 or drc@northeastern.edu.

Clergy Act
Northeastern University is committed to assisting all members of the university community in providing for their own safety and security. Information regarding campus security and personal safety, including topics such as crime prevention, university police law enforcement authority, crime reporting policies, crime statistics for the most recent three-year period, and disciplinary procedures, is available in the Annual Security & Fire Safety Reports, located on the NUPD website at https://nupd.northeastern.edu/annual-reports/
Emergency Information

The university is prepared to respond to emergencies and urgent situations that require immediate action with a trained team of police officers, EMTs, health and counseling experts, student affairs and residential life staff, and other professionals from a coordinated group that is able to manage a wide range of potential situations.

In case of emergency or crisis situations that require immediate notification, university officials will deploy the NU ALERT system, which sends email, voicemail, and text messages to students, faculty, and staff. NU ALERT is intended to communicate pertinent information and, when appropriate, provide directions to those in the affected area(s).

A record of past Timely Warnings and NU ALERT Emergency Notifications for our campus community can be found on the NUPD website at https://nupd.northeastern.edu/safety-notifications/

Examples of crisis situations range from snow storms to national emergencies that have a local impact.

Additional information on the university's emergency information systems can be found on the university's Emergency Information website at https://www.northeastern.edu/emergency-information/.

**Northeastern University Police Department**
716 Columbus Avenue  
Boston, Massachusetts 02115-5000  
Emergency Phone: 617.373.3333  
Non-Emergency Phone: 617.373.2121

**Boston Police Department**
One Schroeder Plaza Boston, MA 02120  
Phone: 617.343.4500 (Emergency 911)

**Parking**
617.373.2366  
Website: https://www.northeastern.edu/commutingservices/

Refer to the parking website for more information, or contact University Police at 617.373.2121.
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 have the opportunity to 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.

**Economics Masters Student Association (student run)**
The Economics Master’s Student Association is a career and network development focused organization for exclusively economics Master students. 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. Yuling Han, MS Economics 2023 and Suraj Chawla, MS Economics 2023 are the co-presidents. Assistant Teaching Professor Xiaolin Shi (x.shi@northeastern.edu) is the faculty advisor. The link to join can be found on the associations’ website at https://cssh.northeastern.edu/economics/masters-student-association/

**PhD Student Association (student run)**
The purpose of the PhD Students Association is to facilitate student-to-student and student-to-faculty interaction in less formal settings. This association is run by the students. To join or for more information, please contact Professor Silvia Prina at s.prina@northeastern.edu.

**PhD Economics Workshops**
During the academic year, each workshop meets Mondays and Wednesdays at noon virtually, and 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
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<tr>
<th>Name</th>
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