

# REGIONAL SCIENCE (MS)

Graduate School

Program Website (<https://aap.cornell.edu/academics/crp/graduate/regional-science/>)

CIP: 45.9999 | HEGIS: 2299.00 | NYSED: 13276

## Graduate Field

Regional Science (<https://catalog.cornell.edu/graduate-school/regional-science/>)

## Program Description

The Regional Science program is designed to provide students with a thorough understanding of regional, interregional, location, and conflict theory in the context of physical and policy spaces and the framework of existing economic, social, and political systems. Students master techniques of analysis of urban-regional systems as they relate to public and private decision making, with heavy emphasis on mathematical models and quantitative methods. Students are fully exposed to the existing and newly developing social science theory that directly relates to the multidisciplinary approach of regional science.

Course offerings focus on the socioeconomic aspects of the physical environment and on the spatial and conflict aspects of socioeconomic systems. Students may ask any member of the Graduate Faculty to serve on their Special Committee. The chairperson must be a member of the Field of Regional Science.

Applicants to the master's degree program who have appropriate and strong background in quantitative methods and economics may, with a very focused program of study, be able to complete their course work in the minimum two semesters. Applicants lacking this background, or those seeking a more broadly based education in regional science, should expect to spend up to four semesters in residence for the master's degree.

## Concentrations

- Environmental studies
- International spatial problems
- Location theory
- Multiregional economic analysis
- Peace science
- Planning methods
- Urban and regional economics

Program Information

- Instruction Mode: In Person
- Location: Ithaca, NY

## Program Requirements

- Minimum Semesters for Degree: 2

## Graduate School Milestones

- Responsible Conduct of Research Training: Required
- Open Researcher and Contributor ID (ORCID): Required

- Student Progress Reviews (SPR) begin: Second Year
- Masters Exam (M Exam): Spring of fourth year
- Thesis: Spring of fourth year

## Course Requirements

- Course requirements are determined by the student's Special Committee.
- Enrollment in a GRAD research course or the equivalent field specific research course is expected of all students.

## University Graduation Requirements Requirements for All Students

In order to receive a Cornell degree, a student must satisfy academic and non-academic requirements.

### Academic Requirements

A student's college determines degree requirements such as residency, number of credits, distribution of credits, and grade averages. It is the student's responsibility to be aware of the specific major, degree, distribution, college, and graduation requirements for completing their chosen program of study. See the individual requirements listed by each college or school or contact the college registrar's office (<https://registrar.cornell.edu/service-resources/college-registrar-directory/>) for more information.

### Non-academic Requirements

**Conduct Matters.** Students must satisfy any outstanding sanctions, penalties or remedies imposed or agreed to under the Student Code of Conduct (Code) or Policy 6.4. Where a formal complaint under the Code or Policy 6.4 is pending, the University will withhold awarding a degree otherwise earned until the adjudication process set forth in those procedures is complete, including the satisfaction of any sanctions, penalties or remedies imposed.

**Financial Obligations.** Outstanding financial obligations will not impact the awarding of a degree otherwise earned or a student's ability to access their official transcript. However, the University may withhold issuing a diploma until any outstanding financial obligations owing to the University are satisfied.

## Learning Outcomes

- Cornell's graduate programs in Regional Science are intended to help students:
  - synthesize knowledge from different cognate areas
  - make plausible inferences about phenomena they study
  - exploit course-based knowledge to address problems at the frontiers of the field.
- Students in Regional Science should:
  - become skilled at communicating in writing, orally, and with presentation media at a professionally acceptable level
  - be made aware of ethical issues associated with the responsible conduct of research and service to the field.
- In terms of substantive content, students are expected to:
  - gain a command of leading theories of micro- and macro-economic behavior, industrial location, the spatial aggregation and fragmentation of activities, trade, transportation, land use, and migration.
  - have mastery of methods for modeling behaviors in space and their impacts and to frame and test theoretical propositions appropriately.

Such methods include but are not limited to mathematical economics, operations research, network analysis, econometrics, spatial statistics, geographical informatics, remote sensing, input-output analysis, social accounting, computable general equilibrium analysis, and agent-based modeling techniques.

- Proficiencies in theoretical and applied knowledge are demonstrated through the presentation and publication of original contributions in suitable venues, active pursuit of an advanced scholarly research agenda, and ethical comportment in giving and receiving feedback on scholarship and in service to the broader community.