Northeastern University

The Master of Science in Urban Informatics builds on Northeastern’s expertise in experiential learning and real-world problem solving, and connects students to our Global Network of more than 3,000 employer partners and 200,000 alumni.

“Graduates from our urban informatics programs will be a part of the next wave of urban professionals ready to integrate data analytic skills with knowledge of the socio-political dimension of cities.”
— Matthias Ruth, PhD, Director and Professor, School of Public Policy and Urban Affairs

ABOUT THE PROGRAM
> Integrate studies in data analytics with urban policy
> Apply data science skills to major social, political, and environmental challenges
> Engage with real world data challenges faced by cities

INDUSTRY INFORMATION

66% of the world’s population projected to be living in cities by 2050
1.5M Anticipated shortage of demand for managers and analysts capable of making data-driven decisions by 2018

Source: United Nations, Dept. of Economic and Social Affairs (2014)
Source: McKinsey Global Institute

Get Started
> Visit northeastern.edu/datascience and apply
> Fall and spring options
> Hybrid format
> Boston campus
> 100% online Fall 2016

Other Programs Available*
> Graduate Certificate in Urban Informatics
> Master of Public Administration
> MS in Urban and Regional Policy

*Check our website for program and concentration availability at specific campus locations.

CURRICULUM OUTLINE

Foundation Courses (16 semester hours)
> Introduction to Computational Statistics
> Collecting, Storing, and Retrieving Data
> Introduction to Data Mining/Machine Learning
> Information Design and Visual Analytics

Required Core (10 semester hours)
> Big Data for Cities
> Urban Theory and Science
> GIS for Urban Policy
> Urban Informatics Portfolio

Specialized Skills Courses (3 semester hours) Choose one:
> Advanced Spatial Analysis of Urban Systems
> Dynamic Modeling for Environmental Investment and Policy Making

Client-Based Project (3 semester hours) Choose one:
> Capstone in Urban and Regional Policy
> Research Practicum

Degree Information
> An undergraduate course in statistics must be successfully completed before you begin the program, but not necessarily before you submit your admission application.
> Graduate Certificate in Data Science and Graduate Certificate in Urban Informatics courses can be applied to the MS in Urban Informatics.

Total Degree Requirements (32 semester hours)
> Students typically complete this program in 18 months to two years depending on course load