URBAN SCIENCE AND PLANNING WITH
COMPUTER SCIENCE

Bachelor of Science in Urban Science and Planning with
Computer Science (Course 11-6)

Urban settlements and technology around the world are rapidly co-
evolving as flows of population, finance, and politics are reshaping
the very identity of cities and nations globally. We already see
rapid and profound change, especially in mega-cities, including
pervasive sensing, the growth and availability of continuous data
streams, advanced analytics, interactive communications and
social networks, and distributed intelligence. Examples of new
technologies facilitated by or requiring big data and new informatics
concentrated in urban areas include, but are not limited to,
autonomous vehicles, sensor-enabled self-management of natural
resources, cybersecurity for critical infrastructure biometric identity,
the sharing or gig-economy, and continuous public engagement
opportunities through social networks and data and visualization.

The Bachelor of Science in Urban Science and Planning with
Computer Science (Course 11-6) (http://catalog.mit.edu/degree-
charts/urban-science-planning-computer-science-11-6) emphasizes
the development of fundamental skills in urban planning and policy,
including ethics and justice; statistics, data science, geospatial
analysis, and visualization; and computer science, robotics, and
machine learning. The Course 11-6 program provides numerous
opportunities for field-based problem-solving experience through
labs, UROP assignments and client-based courses in which students
synthesize and empirically integrate what they are learning
about theory and practice at the intersection of computer and
urban science. Students also have the opportunity to specialize
though the selection of a customized concentration of upper-level
electives in data visualization, applied spatial analysis, design,
and public policy. Students in the program are full members of both
departments and of two schools, Architecture and Planning and
Engineering.

For more information, email (duspinfo@mit.edu) or call
617-253-9403.