The Department of Urban Studies and Planning (DUSP) offers four degree programs: a Bachelor of Science in Planning; a two-year professional Master in City Planning (MCP); a one-year Master of Science in Urban Studies and Planning (reserved for mid-career students); and a PhD in Urban Studies and Planning. In addition, DUSP has other, nondegree programs and affiliations: the Special Program in Urban and Regional Studies (http://spurs.mit.edu) (for mid-career professionals from developing countries); the Community Innovators Lab; the Center for Advanced Urbanism (http://cau.mit.edu); and the SENSEable City Lab (http://senseable.mit.edu). Once students are admitted and enrolled at MIT, it is possible to apply for certificate programs in urban design (offered jointly with the Department of Architecture) or environmental planning.

City and regional planners in the United States and other parts of the world are involved not only in physical and economic development, but also in management of the environmental, social, and design consequences of development. They engage in a variety of activities aimed at shaping the forms and patterns of human settlements, and at providing people with housing, public services, employment opportunities, and other crucial support systems that comprise a decent living environment. Planning encompasses not just a concern for the structure and experience of the built environment, but also a desire to harness the social, economic, political, and technological forces that give meaning to the everyday lives of men and women in residential, work, and recreational settings. Planners operate at the neighborhood, metropolitan, state, national, or international level, in both the public and the private sectors. Their tasks are the same: to help frame the issues and problems that receive attention; to formulate and implement projects, programs, and policies responsive to individual and group needs; and to work with and for various communities in allocating economic and physical resources most efficiently and most equitably.

Planners are often described as ‘generalists with a specialty.’ The specialties offered at MIT include city design and development; housing, community, and economic development; international development; and environmental policy and planning, as well as cross-cutting opportunities to study urban information systems, multi-regional systems, and mobility systems. These planning specialties can be distinguished by the geographic levels at which decision making takes place—neighborhood, city, regional, state, national, and global. Subspecialties have also been described in terms of the roles that planners are called upon to play, such as manager, designer, regulator, advocate, educator, evaluator, or futurist.

A focus on the development of practice-related skills is central to the department’s mission, particularly for students in the MCP professional degree program. Acquiring these skills and integrating them with classroom knowledge are advanced through the department’s field-based practicum subjects and research, and through internship programs. In fieldwork, students acquire competence by engaging in practice and then bringing field experiences back into the academic setting for reflection and discussion. Students may work with community organizations, government agencies, or private firms under the direction of faculty members involved in field-based projects with outside clients. In some cases, stipends may be available for fieldwork or internship programs. The Department of Urban Studies and Planning is committed to educating planners who can advocate on behalf of underrepresented constituencies.

During the month of January, the department offers a series of ‘mini-subjects’ in specialized fields not covered by the regular curriculum, including both noncredit and for-credit offerings.

Specific opportunities for concentration and specialization available to students are detailed in the descriptions of the degree programs that follow.

**Undergraduate Study**

The Department of Urban Studies and Planning offers a Bachelor of Science in Planning; HASS Minors in Urban Studies and Planning, International Development, and Public Policy; and a variety of HASS concentrations. There is also an accelerated SB/MCP program which allows exceptional students to complete their undergraduate and master’s degree work in five years.

In addition, DUSP also hosts MIT’s Teacher Education Program (TEP), described under Career and Professional Options (http://catalog.mit.edu/mit/undergraduate-education/career/teacher-licensure-education) in the Undergraduate Education section. TEP provides an option for students interested in exploring new ideas in teaching and learning as applied to K-12 schools. Studies in TEP can also lead to licensure in math or science teaching at the high school or middle school levels.

**Bachelor of Science in Planning (Course 11)**

The Department of Urban Studies and Planning offers an interdisciplinary preprofessional undergraduate major (http://catalog.mit.edu/degree-charts/planning-course-11) designed to prepare students for careers in both the public and private sectors. The major also provides a foundation for students who are considering graduate work in law, public policy, international development, urban design, management, and planning. The subjects in the major teach students how the tools of economics, policy analysis, political science, and urban design can be used to solve social and environmental problems in the United States and abroad. In addition, students learn the skills and responsibilities of planners who seek to promote effective and equitable social change.

After satisfying the core requirements, students use their electives to pursue a specific track. We suggest one of the following, but will accept self-designed options to better meet a student’s interest:
urban and environmental policy and planning; urban society, history, and politics; or urban and regional public policy. The required laboratory emphasizes urban information systems and offers skills for measurement, representation, and analysis of urban phenomena. In the laboratory subject, students also explore the ways emerging technology can be used to improve government decision making.

Students are encouraged to develop a program that will strengthen their analytic skills, broaden their intellectual perspectives, and test these insights in real-world applications. Students must complete a senior project that synthesizes what they have learned. This project may consist of an analysis of a public policy issue, a report on a problem-solving experience from an internship or other field experience, or a synthesis of research on urban affairs.

**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](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.

Email for more information (duspinfo@mit.edu) or call 617-253-9403.

**Five-Year SB-MCP Option**

Undergraduate Course 11 majors may apply for admission to the department’s Master in City Planning (MCP) program in their junior year. Students accepted into the five-year program receive both the Bachelor of Science and the MCP at the end of five years. Admission is intended for those undergraduates who have demonstrated exceptional performance in the major and show commitment to the field of city planning. Criteria for admission include the following:

- A strong academic record in Course 11 subjects
- Letters of reference from departmental faculty
- Practical experience in planning, which could be gained through internships, practicums, studios, Undergraduate Research Opportunities Program experiences, summer jobs, etc.
- A mature and passionate interest for the field that warrants further study

Students can obtain more information on the five-year program from Sandra Wellford, undergraduate administrator, Room 7-346A, 617-253-9403.

**Minor in Urban Studies and Planning**

The six-subject Minor in Urban Studies and Planning offers students the opportunity to explore issues in urban studies and planning in some depth. Students initially take two Tier I subjects that establish the political, economic, and design contexts for local, urban, and regional decision making. In addition, students choose four Tier II elective subjects, which provide an opportunity to focus on urban and environmental policy issues or to study urban problems and institutions. Students are encouraged to craft a minor that reflects their own particular interests within the general parameters of the minor program requirements and in consultation with the minor advisor.

**Requirements**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.001[J]</td>
<td>Introduction to Urban Design and Development</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>Select four Course 11 elective subjects</td>
<td>36-48</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**

60-72

1 In consultation with the advisor, students can select from recommended concentrations described in the department’s course maps or create their own stream tailored to a particular set of urban, policy, or planning concerns.

**Minor in International Development**

The HASS Minor in International Development aims to increase students’ ability to understand, analyze, and tackle problems of global poverty and economic development in the developing world. Challenges include increasing urbanization; the need for industrial growth as well as jobs for an increasing number of educated youth; the crisis of resources and infrastructure; the fragmentation of state capacity and rising violence; ethical and moral issues raised by development planning; the role of appropriate technology and research; and popular discontent. The minor emphasizes problem-solving, multidisciplinarity, and an understanding of institutions at
various levels—from the local to the global—as the keys to solving today’s problems in emerging countries.

The six-subject minor is structured into two tiers. The subjects in the first tier provide a general overview of the history of international development and major theories and debates in the field, and an introduction to the dilemmas of practice. They also introduce the challenges of applying models of interventions across contexts and the importance of understanding local institutional frameworks and political economies across scales and levels of governance.

Subjects in the second tier offer an array of more specialized and advanced subjects to allow students greater depth in specific sectors and international development issues such as public finance, infrastructure and energy, sustainability, the role of technology policy, the form and structure of cities, the politics of urban change and development, the role of law and public policy in development, and the rethinking of development in terms of human rights.

**Tier I: Introduction to International Development Theories and Practice**

Select two of the following: 24

- 11.005 Introduction to International Development
- 11.025[J] D-Lab: Development
- 11.140 Urbanization and Development

**Tier II: Specialized Topics in International Development**

Select four of the following (in consultation with the minor advisor): 42-48

- 11.027 City to City: Comparing, Researching and Writing about Cities
- 11.144 Project Appraisal in Developing Countries
- 11.147 Budgeting and Finance for the Public Sector
- 11.164[J] Human Rights at Home and Abroad
- 11.165 Urban Energy Systems and Policy
- 11.166 Law, Social Movements, and Public Policy: Comparative and International Experience
- EC.715 D-Lab: Water, Sanitation and Hygiene

Total Units 66-72

Additional subjects not listed above may be included in the minor at the discretion of the minor advisor.

Further information can be obtained from Professor Balakrishnan Rajagopal (braj@mit.edu), Room 9-432, 617-253-6315.

**Minor in Public Policy**

The interdisciplinary HASS Minor in Public Policy (http://catalog.mit.edu/interdisciplinary/undergraduate-programs/minors/public-policy) is intended to provide a single framework for students interested in the role of public policy in the field of their technical expertise. Because the Course 11 major has a strong public policy element and several subjects are redundant, Course 11 majors are not eligible for the Minor in Public Policy.

**HASS Concentrations**

DUSP offers clusters of subjects that satisfy the Institute requirement. These three-subject clusters allow students either to develop competence within a specific discipline or to explore a particular policy problem. Possible areas of concentration include: designing the urban environment, environmental policy, urban history, policy analysis and urban problems, legal issues and social change, and education. Sample programs (http://dusp.mit.edu) are available online.

The DUSP concentration focusing on education can also lead to Massachusetts licensure in teaching math and science at the middle and high school levels. This requires taking:

**Education Concentration Subjects**

- 11.129 12
- 11.130 12
- 11.131 12

**Core Subjects**

- 11.124 12
- 11.125 12

More information is available from Eric Klopfer, Room E15-301, 617-253-2025.

**Graduate Study**

The Department of Urban Studies and Planning offers graduate work leading to the Master in City Planning and the Doctor of Philosophy. In conjunction with the Center for Real Estate, the department also offers a Master of Science in Real Estate Development. These programs are open to students from a variety of backgrounds. Urban studies, city planning, architecture, urban design, environmental planning, political science, civil engineering, economics, sociology, geography, law, management, and public administration all offer suitable preparation. For further information concerning academic programs in the department, application for admission, and financial aid, contact Graduate Admissions, Room 7-346, 617-253-9403.

**Master in City Planning**

The principal professional degree in the planning field is the Master in City Planning (MCP). The Department of Urban Studies and Planning provides graduate education for men and women who
The two-year Master in City Planning degree program emphasizes mastery of tools for effective practice and is therefore distinct from undergraduate liberal arts programs in urban affairs or doctoral programs that emphasize advanced research skills. MCP graduates work in a broad array of roles, from 'traditional' city planning to economic, social, and environmental planning, as well as urban design. In addition to its basic core requirements, the program offers four areas of specialization: City Design and Development; Environmental Policy and Planning; Housing, Community, and Economic Development; and International Development. MCP students, in their application to the department, select one of these areas of specialization and, when applicable, indicate interest in cross-cutting programs in transportation planning, urban information systems, and regional planning.

Each student’s plan of study in the MCP Program is set forth in a program statement developed jointly by the student and faculty advisor during the student’s first term. Linked to career development goals, the program statement describes the purposes and goals of study, the proposed schedule of subjects, the manner in which competence in a specialization is developed, and an indication of a possible thesis topic.

**Degree Requirements**

Students are expected to take a minimum of 36 credit units each term (at least three subjects, though more frequently four), yielding at least 126 total units, in addition to the thesis.

A collection of subjects and requirements to be taken during the student’s two years in the MCP program constitute a ‘core experience’ viewed as central to the professional program. The core subjects and requirements include the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.201</td>
<td>Gateway: Urban Studies and Planning</td>
<td>12</td>
</tr>
<tr>
<td>11.202</td>
<td>Planning Economics</td>
<td>4</td>
</tr>
<tr>
<td>11.203</td>
<td>Microeconomics</td>
<td>8</td>
</tr>
<tr>
<td>11.205</td>
<td>Introduction to Spatial Analysis</td>
<td>6</td>
</tr>
<tr>
<td>11.220</td>
<td>Quantitative Reasoning and Statistical Methods for Planning</td>
<td>12</td>
</tr>
</tbody>
</table>

At least one core practicum subject, selected from an approved list, during the two-year program.

A thesis preparation seminar in the area of specialization, taken during the second or third term of study.

1 Students can test out of these subjects.

Students identified as having weaker writing skills are also encouraged to take a writing course.

All students are required to submit a thesis on a topic of their choice. The department encourages MCP students to avoid the traditional perception of the thesis as a 'mini-dissertation,' and to think instead of a client-oriented, professional document that bridges academic and professional concerns. While most of the thesis work occurs during the last term of the second year, students are urged to begin the process of defining a thesis topic early in the second year through their participation in a required thesis preparation seminar.

Students in the MCP Program are encouraged to integrate fieldwork and internships with academic coursework. The Department of Urban Studies and Planning provides a variety of individual and group field placements involving varying degrees of faculty participation and supervision. Academic credit is awarded for field experience, although some students choose instead to participate in the work-study financial aid program. The department also sponsors a variety of seminars in which students have an opportunity to reflect on their field experiences.

The City Design and Development (CDD) group engages, researching, and projects the physical planning of cities, regions, and their built and natural environments, at scales and locations that range from urban neighborhoods and city cores to outer suburbs. Graduates work in a variety of private, public, and nonprofit roles as urban designers, planning and design consultants, municipal and regional planners, managers of public agencies, advocates of historic and landscape preservation, housing, and land use regulations, real estate development, and as planners of transportation and mobility systems. CDD is closely associated with faculty and students in the Department of Architecture’s Urbanism field, the Center for Advanced Urbanism, Center for Real Estate, SENSEable City Lab, and Media Lab. Many subjects are cross-listed with these groups. CDD’s diverse educational offerings, ranging from studios to seminars, lectures, and workshops, ensure that every student can develop unique competence and intellectual depth in the field. CDD students may also elect to pursue the Urban Design Certificate, for those who wish to be involved in shaping the physical form and logistical function of cities, or pursue an additional year of study through DUSP’s SM in Advanced Urbanism. Individual faculty within CDD also work in areas that include landscape urbanism; resilient cities and housing; land use planning and regulation; innovation districts; parametric urbanism; and much more.

The Center for Advanced Urbanism—jointly administered by faculty from the CDD group and the Urbanism group in the Department of Architecture—is a research-based institution dedicated to
implementing new collaborative models of design and urban research.

The Environmental Policy and Planning (EPP) group emphasizes the study of how society conserves and manages its natural resources and works to promote sustainable development. Areas of concern include the role of science in environmental policymaking, climate change mitigation and adaptation, sustainable international development, adaptive ecosystem management, environmental justice, global environmental treaty making, environmental regulation, energy efficiency and renewable energy, the role of private corporations in environmental management, the public health impacts of environmental planning, infrastructure planning, and the mediation of environmental disputes. Students investigate the interactions between built and natural systems; the effectiveness of different approaches to environmental planning and policymaking; techniques for describing, modeling, forecasting, and evaluating changes in environmental quality; approaches to environmental policy analysis; strategies for stakeholder involvement in environmental planning; and mechanisms for assessing the choices posed by the environmental impacts of new technology in local, state, national, and international contexts.

The Housing, Community, and Economic Development (HCED) group focuses on the equitable development of communities in the United States, at the neighborhood, city, and regional scales. Its mission is to prepare professionals with the skills and knowledge to be responsible leaders of public, private, and nonprofit sector organizations and networks engaged in equitable development. The group is driven by a deep faculty commitment to expanding opportunity and improving quality of life for historically disadvantaged groups. HCED emphasizes ongoing, empowering partnerships with those affected by change—often those who are organizing to lead local improvement efforts. Many faculty and students also have an interest in global markets and federal and state policy. For decades, the group’s faculty and students have helped shape policy, practice and research in housing, economic, workforce, and comprehensive community development. Increasingly, HCED connects to efforts that promote public health, environmental sustainability, and more inclusive “digital cities” as well. HCED promotes an integrated and dynamic approach to learning, helping prepare students for careers as problem solvers who can perform in varied roles: policy analyst or policy maker, advocate and organizer, mediator, evaluator, program designer, investor and entrepreneur, project developer and manager. At the doctoral level, HCED prepares students not only to produce but also to shape the next generation of creative teaching and scholarship.

The International Development Group (IDG) draws on the experiences of developing and newly industrializing countries throughout the world as the basis for advice about planning at the local, regional, national, and global levels. IDG provides students with an integrated view of the institutional, legal, historical, economic, technological, and sociopolitical factors that have shaped successful planning experiences and how they translate into action. Class content and faculty expertise include economic development at various scales; human rights and rights-based approaches to development, ethical and moral issues raised by development planning, the challenge of planning amidst popular discontent; regional planning (including decentralization); finance and project evaluation; housing, human settlements, and infrastructure services (transportation, telecommunications, water, sanitation, sewerage); institutions of economic growth; law and economic development; industrialization and industrial policies (including privatization); poverty-reducing and employment-increasing interventions including informal sector, nongovernment organizations, and small enterprises; comparative urban and metropolitan politics and policy; property and land rights, comparative property and land use law, collective action, and common property issues (water, forestry, grazing, agriculture); human rights and development; conflict and social dynamics in cities; post-conflict development; and globalization and governance.

Urban Information Systems (UIS) is a cross-cutting group that connects faculty, staff, and students who are interested in the ways information and communication technologies impact urban planning. Research topics include building neighborhood information systems to facilitate public participation in planning; exploring the complex relationships underlying urban spatial structure, land use, transportation, and the environment; modeling urban futures and metropolitan growth scenarios; and experimenting with mobile computing, location-based services, and the community building, planning, and urban design implications of ubiquitous computing. Associated faculty are engaged in many related research projects through the SENSEable City Lab, the Civic Data Design Lab, the Urban Mobility Lab, the Center for Advanced Urbanism, and MIT-wide interdisciplinary research initiatives such as the Future Urban Mobility project in Singapore. Through seminars and related activities, we share experiences and find ways to collaborate on the technical, planning, and social science aspects of making information technology–enabled urban futures more responsive to public and private interests in ways that are transparent and equitable.

Much of UIS’s work involves the development and use of planning-related software and the urban analytics, spatial analysis tools, and systems (such as GIS and distributed geoprocessing) that are increasingly important parts of urban planning methods and metropolitan information infrastructures. However, UIS interests go beyond the development and use of specific technologies and extend to an examination of the ripple effects of computing, communications, and digital spatial information on current planning practices and on the meaning and value of the impacted communities and planning institutions.

**Simultaneous Master's Degrees in City Planning and Architecture**

Students who have been admitted to either the Department of Urban Studies and Planning or the Department of Architecture can
propose a program of joint work in the two fields that will lead to the simultaneous awarding of two degrees. Degree combinations may be MCP/MArch or MCP/SMArchS. A student must apply by the January deadline prior to beginning the last full year of graduate study for the first degree: MCP and SMArchS. SMArchS students must apply during their first year at MIT (by the end of the first term); MArch students must apply during or before their second year. Students are first approved by the Dual Degree Committee and then considered during the spring admissions process. All candidates for simultaneous degrees must meet the requirements of both degrees, but may submit a joint thesis.

**Simultaneous Master's Degrees in City Planning and Transportation**

Students who have been admitted to study for the Master in City Planning or the Master of Science in Transportation may apply to the other program during their first year of study and propose a program of joint work in the two fields that will lead to the simultaneous awarding of two degrees. Details of this program are provided under Interdepartmental Programs in the Civil and Environmental Engineering section.

**Simultaneous Master's Degrees in City Planning and Real Estate Development**

Students who have been admitted to the Master in City Planning Program or the Master of Science in Real Estate Development Program may apply to the other program during their first year of study and propose a program of joint work in the two fields that will lead to the simultaneous awarding of two degrees. Students may submit a joint thesis.

**Master of Science in Urban Studies and Planning**

Under special circumstances, admission may be granted to candidates seeking a one-year Master of Science (SM) degree. The SM is intended for professionals with a number of years of distinguished practice in city planning or related fields who have a clear idea of the courses they want to take at MIT, the thesis they want to write, and the DUSP faculty member with whom they wish to work. That faculty member must be prepared to advise the candidate when at MIT and to submit a letter of recommendation so indicating as part of the candidate’s application. This process means that prior to submitting an application the candidate must contact the appropriate DUSP faculty member to establish such a relationship. The SM does not require the candidate to take the core courses, which are mandatory for MCP candidates. As indicated above, a thesis is required. For further information concerning the SM option, contact Graduate Admissions, Room 7-346, 617-253-9403.

**Doctor of Philosophy**

The PhD is the advanced research degree in urban planning or urban studies. Admission requirements are substantially the same as for the master’s degree, but additional emphasis is placed on academic preparation, professional experience, and the fit between the student’s research interests and the department’s research activities. Nearly all successful applicants have previously completed a master’s degree.

The doctoral program emphasizes the development of research competence and the application of research methods to exploring critical planning questions. Students work under the mentorship of a faculty advisor. They may focus their studies on any subfield of planning in which the faculty in the department have expertise.

After successful completion of coursework, students are required to take oral and written qualifying general exams in two fields: an intellectual discipline (city design and development, international development, public policy, urban information systems, regional and urban economics, or urban sociology) and a field to which this discipline is applied and that coincides with the student’s research interest and possible dissertation topic. Doctoral candidates are expected to complete the qualifying general examinations before beginning their third year of residence. Upon completing the qualifying general examination and a colloquium about the dissertation proposal, a PhD candidate must write and successfully defend a doctoral dissertation that gives evidence of the capacity to do independent and innovative research.

A minimum of 72 units plus 36 units for the dissertation (a minimum of 108 units) is required for the PhD degree.

Interested and qualified students can undertake joint doctoral programs with the Department of Political Science or the Department of Civil and Environmental Engineering.

**Advanced Urbanism Concentration**

The Norman B. Leventhal Center for Advanced Urbanism (LCAU), together with the Department of Architecture and MIT Department of Urban Studies and Planning, have established a collaborative doctoral-level concentration in advanced urbanism. At MIT, advanced urbanism is the field that integrates research on urban design, urbanization, and urban culture. The doctoral concentration in advanced urbanism is intended for those who have at least one professional design degree (in architecture, landscape architecture, urban design, etc.). A successful applicant will have research interests in urbanism that align with faculty research in both DUSP and Architecture. In this spirit, the student’s dissertation committee is expected to include faculty from both departments. More broadly, an advanced urbanism doctoral student is expected to engage with the research community at the LCAU and within their home department throughout their time at MIT.

Admissions applications for the DUSP side of this program are submitted directly through the department’s regular PhD admissions process, with the same January 3 deadline. Those interested in being considered for an Advanced Urbanism doctoral fellowship should indicate this in their applications. In the process of application review, the DUSP PhD admissions committee will identify strong applicants who fit the advanced urbanism program profile and nominate them for further consideration by a joint advanced
urbanism admissions committee. The applicant selected by this joint committee would, in turn, be admitted as part of the regular DUSP PhD admissions process. Upon arrival at MIT, students holding the advanced urbanism doctoral fellowship through DUSP will be expected to complete all DUSP doctoral degree requirements plus additional requirements for the advanced urbanism concentration. Tuition support and research assistantships are provided by LCAU. Additional details can be found on the LCAU website (http://lcau.mit.edu/center/education).

**Interdisciplinary Programs**

**Graduate Programs in Transportation**
MIT provides a broad range of opportunities for transportation-related education. Courses and classes span the School of Engineering, the Sloan School of Management, and the School of Architecture and Planning, with many activities covering interdisciplinary topics that prepare students for future industry, government, or academic careers.

A variety of graduate degrees are available to students interested in transportation studies and research, including a Master of Science in Transportation and PhD in Transportation, described under Interdisciplinary Graduate Programs, as well as a nine-month Master of Engineering Transportation program, described in the Master of Engineering program for the Department of Civil and Environmental Engineering.

**Environmental Planning Certificate**
Students in the MCP and PhD program who complete a prescribed set of subjects are awarded a Certificate in Environmental Planning. For further information, contact Takeo Kuwabara (takeok@mit.edu).

**Urban Design Certificate**
Students in the MCP, MArch, or SMArchS programs who complete a specific curriculum of subjects in history and theory, public policy, development, studios and workshops, and a thesis in the field of urban design are awarded a Certificate in Urban Design by the School of Architecture and Planning. For further information contact the Joint Program in City Design and Development office, Room 10-485, 617-253-5115.

**Nondegree Programs**
A limited number of nondegree students are admitted to the department each term. This special student status is especially designed for professionals interested in developing specialized skills, but is also available to others.

The MIT Community Innovators Lab (CoLab) supports faculty and students to work with low-income and excluded people in the United States, Latin America, and the Caribbean, tapping their energy, creativity, and in-depth knowledge of the issues they face to tackle poverty, climate change, and mass urbanization. Launched in 2007, CoLab supports faculty and student collaboration on field-based projects working with departments, laboratories, and centers across the Institute on action research while providing important resources to community leaders.

CoLab offers instruction and tools—practice-based classes, study groups, tutoring, coaching, mentoring, as well as IAP courses in reflective practice, civic engagement, action research, use of social media, storytelling, and visual mapping—to help students embed and apply technical learning in real societal contexts, equipping them with the resources they will need to take leadership roles in an increasingly complex world. Its dense network of innovative practitioners in the US, Latin America, and the Caribbean augments faculty instruction with field-based coaching, helping to train the next generation of practitioners and scholars committed to addressing social exclusion and sustainability—two of the greatest global challenges of our time.

In addition to work in communities, CoLab hosts regular programs that bring nationally recognized leaders to share their work and help inform the Institute’s research agenda. The Mel King Community Fellows Program convenes an annual cohort of advanced practitioners from a range of relevant fields who are grappling with challenges of equitable and sustainable development. CoLab also provides community and industry leaders with private deliberative space in which they can explore emerging issues while allowing students up-close opportunities to participate in collaborative brainstorming sessions. Along with CoLab workshops, CoLab Radio (the center’s blog) and online programming, roundtables, speaker series, and lunchtime talks, these activities enliven and enrich the Institute’s intellectual community by infusing it with a powerful diversity of voices and insights.

CoLab is located in Room 9-419. Further information can be found on the CoLab website (http://colab.mit.edu) and CoLab blog (http://colabradio.mit.edu).

The Special Program for Urban and Regional Studies (SPURS) is a one-year program designed for mid-career professionals from developing and newly industrializing countries. SPURS was founded in 1967 as part of the Department of Urban Studies and Planning (DUSP), which has a long-standing commitment to bringing outstanding individuals to MIT to reflect on their professional practice in the field of international development. The program is designed to nurture individuals, often at a turning point in their professional careers, to retool and reflect on their policy-making and planning skills. SPURS Fellows return to their countries with a better understanding of the complex set of relationships among local, regional, and international issues. SPURS has hosted over 676 women and men from more than 117 countries in Latin America, Asia, Africa, the Middle East, and Eastern and Central Europe. SPURS alumni/ae hold senior level positions in both the public and private sectors in their countries.

Department of Urban Studies and Planning
For further information contact Nimfa de Leon, Room 9-435, 617-253-5915 or visit the SPURS website (http://web.mit.edu/spurs/www).

Inquiries
For further information concerning academic programs in the department, application for admission, and financial aid, contact Graduate Admissions, Room 7-346, 617-253-9403.

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Head, Department of Urban Studies and Planning

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Professor of Landscape Architecture and Urban Planning
(On leave, fall)

Alan M. Berger, MLA
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Phillip L. Clay, PhD
Class of 1922 Professor
Professor Post-Tenure of Urban Studies and Planning

Joseph Ferreira Jr, PhD
Professor Post-Tenure of Urban Planning and Operations Research

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Professor of Education
Head, Comparative Media Studies/Writing Program

Jennifer S. Light, PhD
Bern Dibner Professor of the History of Science and Technology
Professor of Urban Studies and Planning
Head, Science, Technology, and Society Program

Paul Osterman, PhD
Nanyang Technological University Professor
Professor of Human Resources and Management
Professor of Urban Studies and Planning

Adèle Naudé Santos, MArch, MCP, MAUD
Professor Post-Tenure of Architecture
Professor Post-Tenure of Urban Planning

Bishwapriya Sanyal, PhD
Ford International Professor
Professor of International Development and Planning

Hashim Sarkis, PhD
Professor of Architecture
Professor of Urban Planning
Dean, School of Architecture and Planning

Anne Whiston Spirn, PhD
Cecil and Ida Green Distinguished Professor
Professor of Planning
Professor of Landscape Architecture

Lawrence E. Susskind, PhD
Ford Professor in Urban Studies
Professor of Urban and Environmental Planning

Lawrence Vale, DPhil
Ford International Professor in Urban Studies
Professor of Urban Design and Planning

Siqi Zheng, PhD
Samuel Tak Lee Professor
Professor of Real Estate Development and Entrepreneurship

Associate Professors
Mariana Arcaya, ScD
Associate Professor of Urban Planning and Public Health

Gabriella Carolini, PhD
Associate Professor of International Development and Urban Planning

David Hsu, PhD
Associate Professor of Urban and Environmental Planning

Erica C. James, PhD
Associate Professor of Medical Anthropology and Urban Studies

Janelle Knox-Hayes, PhD
Associate Professor of Anthropology

Janselle Knox-Hayes, PhD
Associate Professor of Economic Geography and Planning

Balakrishnan Rajagopal, SJD
Associate Professor of Law and Development

Brent D. Ryan, PhD
Associate Professor of Urban Design and Public Policy

Albert Saiz, PhD
Daniel Rose Professor
Associate Professor of Urban Economics and Real Estate
Andres Sevtsuk, PhD
Associate Professor of Urban Science and Planning

Justin Steil, JD, PhD
Class of ’42 Career Development Professor
Associate Professor of Law and Urban Planning
(On leave)

J. Phillip Thompson, PhD
Associate Professor of Political Science and Urban Planning
(On leave)

Sarah E. Williams, MCP
Homer A. Burnell Career Development Professor
Associate Professor of Information Technologies and Urban Planning
Member, Institute for Data, Systems, and Society

Jinhua Zhao, PhD
Associate Professor of Urban Planning and Transportation
Member, Institute for Data, Systems, and Society

Assistant Professors
Devin Michelle Bunten, PhD
Edward H. (1962) and Joyce Linde Career Development Professor
Assistant Professor of Urban Economics and Housing

Catherine D’Ignazio, PhD
Assistant Professor of Urban Studies and Planning

Jason Jackson, PhD
Ford Career Development Professor
Assistant Professor of Political Economy and Urban Planning
(On leave, fall)

Delia Wendel, PhD
Charles and Ann Spaulding Career Development Professor
Assistant Professor of International Development and Urban Planning

Professors of the Practice
Ceasar L. McDowell, EdD
Professor of the Practice of Civic Design

Carlo Ratti, PhD
Professor of the Practice of Urban Technologies

Associate Professors of the Practice
Kairos Shen, MS
Associate Professor of the Practice of Urban Design and Planning

Senior Lecturers
Joseph F. Coughlin, PhD
Senior Lecturer in Urban Studies and Planning

Claus Otto Scharmer, PhD
Senior Lecturer in Management
Senior Lecturer in Urban Studies and Planning

Walter N. Torous, PhD
Senior Lecturer in Real Estate

Lecturers
Cherie Abbanat, MCP
Lecturer of International Development and Urban Studies

Sarah Abrams, MS
Lecturer of Real Estate

Marie Law Adams, MArch
Lecturer of Urban Design and Planning

Jennifer Cookke, MS, MBA
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Karilyn Crockett, PhD
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Dayna L. Cunningham, MBA, JD
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Louise Elving, MCP
Lecturer in Urban Studies and Planning

Ezra Glenn, MA
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Christopher Gordon, MS
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Eric Huntley, PhD
Lecturer of GIS, Data Visualization and Graphics

John Kennedy, MS
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Yuan Lai, PhD
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Jeffrey Levine, MS
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W. Tod McGrath, MBA
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Julie Newman, PhD
Lecturer of Environmental Planning and Sustainability

Mary Anne Ocampo, MArch
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Elizabeth Reynolds, PhD
Lecturer of Innovation and Economic Development
Peter Roth, MS, MArch
Lecturer of Real Estate

Gloria Schuck, PhD
Lecturer of Real Estate

Yanni Tsipis, MS
Lecturer of Real Estate

Bruno Verdini Trejo, PhD
Lecturer of Urban Planning and Negotiation

**Visiting Lecturers**
Kate Mytty, MCP
Visiting Lecturer of Real Estate

**Professors Emeriti**
Lawrence Bacow, PhD
Professor Emeritus of Urban Planning

Robert M. Fogelson, PhD
Professor Emeritus of Urban Studies
Professor Emeritus of History

Ralph Gakenheimer, PhD
Professor Emeritus of Urban Planning

Gary A. Hack, MArch, PhD
Professor Emeritus of Urban Design

Frank S. Jones, MBA
Professor Emeritus of Urban Affairs

Langley C. Keyes Jr, PhD
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Melvin H. King, MEd
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Daniel Rose Professor Emeritus
Professor Emeritus of Urban Economics

Gary Marx, PhD
Professor Emeritus of Sociology

Karen R. Polenske, PhD
Professor Emerita of Regional Political Economy and Planning

James Wescoat, PhD
Aga Khan Professor Emeritus
Professor Emeritus of Urban Studies and Planning

William C. Wheaton, PhD
Professor Emeritus of Urban Studies and Planning
Professor Emeritus of Economics

Clarence G. Williams, PhD
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