City Planning

Minor
The City Planning minor provides students with the knowledge of how cities function, how urban processes might be researched, and how urban environments can be transformed through planning, policy, design, and social action. While the minor cannot convey the full scope of city planning, various combinations of courses in the minor program can, we feel, augment a major program with a particular slant or emphasis on planning issues or processes.

Declaring the Minor
A letter grade of C- or higher is required in two of the lower division requirements listed below to declare the minor. To declare, students must submit the CED Request to Add Minor Form (https://ced.berkeley.edu/students/undergraduate-advising/forms-documents), available on the CED website. When completing the final requirements for the minor, submit the CED Minor Completion Form (https://ced.berkeley.edu/students/undergraduate-advising/forms-documents).

Other Major and Minor Programs Offered by the Department of City and Regional Planning
Geospatial Information Science and Technology (http://guide.berkeley.edu/undergraduate/degree-programs/geospatial-information-science-technology) (Minor only; offered in conjunction with the College of Natural Resources)
Urban Studies (http://guide.berkeley.edu/undergraduate/degree-programs/urban-studies) (Major only)

Students who have a strong interest in an area of study outside their major often decide to complete a minor program. When completing their final requirements for the minor, students must submit the CED Minor Completion Form (https://forms.gle/hMQEi6CvRH4oWyN17), available on the CED website.

General Guidelines
1. All minors must be declared no later than one semester before a student's Expected Graduation Term (EGT).
2. A letter grade of C- or higher is required in two of the lower division requirements listed below to declare the minor. To declare, submit the CED Request to Add Minor Form (https://ced.berkeley.edu/students/undergraduate-advising/forms-documents), available on the CED website.
3. Each course used to fulfill minor requirements must be completed with a letter grade of C- or above.
4. Students must earn a 2.0 GPA in the upper division requirements for the minor.
5. Any course used in fulfillment of minor requirements may also be used to fulfill major and upper division CED non-major requirements.
6. Courses used to fulfill a breadth requirement may also be used to satisfy minor requirements.
7. Students may apply the non-CED version of a CED cross-listed course towards the minor.

8. Students may use up to two courses taken abroad to fulfill upper division minor requirements, with faculty approval of the individual courses.

Prerequisites
Select two courses from the following, from different subject areas:

<table>
<thead>
<tr>
<th>Economics</th>
<th>Statistics</th>
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<tbody>
<tr>
<td>or AP Economics, Micro (passing score of 3 or above)</td>
<td>STAT 20 Introduction to Probability and Statistics [4]</td>
</tr>
<tr>
<td>or AP Statistics (passing score of 3 or above)</td>
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</tbody>
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1 If economics is taken at another college (and transferred in), it should be either microeconomics or micro and macro together.

Upper Division
Five courses

| CY PLAN 110 Introduction to City Planning | 4 |
| Select four additional upper division courses |

At least three courses must be from List 1 below (Planning-related courses); all four courses may be from List 1. List 2 below (Planning-related courses); all four courses may be from List 1.

List 1: Planning Courses

| CY PLAN 101 Introduction to Urban Data Analytics | 4 |
| CY PLAN 113A Economic Analysis for Planning | 3 |
| CY PLAN 113B Community and Economic Development | 4 |
| CY PLAN 114 Introduction to Urban and Regional Transportation | 3 |
| CY PLAN 115 Urbanization in Developing Countries | 4 |
| CY PLAN 117AC Urban & Community Health | 3 |
| CY PLAN 118AC The Urban Community | 4 |
| CY PLAN 119 Planning for Sustainability | 4 |
| CY PLAN 120 Community Planning and Public Policy for Disability | 3 |
| CY PLAN C139 Urban and Sub-national Politics in Developing Countries | 4 |
| CY PLAN 140 Urban Design: City-Building and Place-Making | 3 |
| CY PLAN 190 Advanced Topics in Urban Studies | 1-4 |
| ENV DES 100 The City: Theories and Methods in Urban Studies | 4 |
List 2: Planning-Related Courses

AFRICAM 107 Race and Public Policy 3
ANTHRO 189 Special Topics in Social/Cultural Anthropology 4
DEMOG C126 Sex, Death, and Data (cross-listed as SOCIOL C126) 4
ECON C102 Natural Resource Economics (cross-listed with ENVECON C102) 4
ECON C125 Environmental Economics (cross-listed as ENVECON C101) 4
ECON 131 Public Economics 4
ECON C171 Economic Development (cross-listed as ENVECON C151) 4
EDUC 186AC The Southern Border (cross-listed with ETH STD 159AC and GEOG 159AC) 4
ESPM 102D Climate and Energy Policy 4
ESPM 165 International Rural Development Policy 4
ESPM 168 Political Ecology 4
ESPM 169 International Environmental Politics 4
GEOG 110 Economic Geography of the Industrial World 4
GEOG 181 Urban Field Study 4
GLOBAL 100D Global Development: Theory, History, Geography 4
GLOBAL C100D Global Development: Theory, History, Geography 4
LEGALST 182 Law, Politics and Society 4
POL SCI 139D Urban and Sub-national Politics in Developing Countries 4
POL SCI 181 Public Organization and Administration 4
PB HLTH 150B Introduction to Environmental Health Sciences 3
PUB POL 103 Wealth and Poverty 4
PUB POL C184 Energy and Society 4
SOCIOL 110 Organizations and Social Institutions 4
SOCIOL 124 Sociology of Poverty (also taught as SOCIOL 124AC) 4
SOCIOL C126 Sex, Death, and Data (cross-listed as DEMOG C126) 4
SOCIOL 127 Development and Globalization 4
SOCIOL 136 Urban Sociology 4
UGBA 105 Leading People 3
UGBA 180 Introduction to Real Estate and Urban Land Economics 3
UGBA 184 Urban and Real Estate Economics 3
UGBA 192P Sustainable Business Consulting Projects 3

City Planning

Expand all course descriptions [+ ] Collapse all course descriptions [-]

CY PLAN C88 Data Science for Smart Cities 2

Units
Terms offered: Not yet offered
Cities become more dependent on the data flows that connect infrastructures between themselves, and users to infrastructures. Design and operation of smart, efficient, and resilient cities nowadays require data science skills. This course provides an introduction to working with data generated within transportation systems, power grids, communication networks, as well as collected via crowd-sensing and remote sensing technologies, to build demand- and supply-side urban services based on data analytics.

Data Science for Smart Cities: Read More [+]

Objectives & Outcomes

Course Objectives: Become familiar with urban big data and sensor data collection techniques.

- Develop intuition in various machine learning classification algorithms, as well as regression modelling.
- Foster critical thinking about real-world actionability from analytics.
- Learn how to use data science techniques in urban decision-making and scenario generation.

Student Learning Outcomes: Develop capabilities in a range of data science techniques.

- Gain the ability to solve problems in smart city research and practice.
- Think critically about how to assess analytics for cities.
- Use data analytics in the smart city domain.

Rules & Requirements

Prerequisites: This course is a Data Science connector course and is meant to be taken concurrent with or after Foundations of Data Science COMPSCI C8/INFO C8/STAT C8. Students may take more than one Data Science connector course if they wish, concurrently or after taking the C8 course.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: City and Regional Planning/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Gonzalez

Formerly known as: Civil and Environmental Engineering 88

Also listed as: CIV ENG C88

Data Science for Smart Cities: Read Less [-]
**CY PLAN 97 Field Studies in City and Regional Planning 1 - 3 Units**
Terms offered: Fall 2006, Spring 2006, Spring 2005
Supervised experiences in the study of off-campus organizations relevant to specific aspects of city planning. Regular individual meetings with faculty sponsor and written report required.
Field Studies in City and Regional Planning: Read More [+]  
**Rules & Requirements**
Repeat rules: Course may be repeated for credit without restriction.

**Hours & Format**
Fall and/or spring: 15 weeks - 1-3 hours of fieldwork per week

**Additional Details**
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Field Studies in City and Regional Planning: Read Less [-]

**CY PLAN 98 Special Group Study 1 - 3 Units**
Terms offered: Fall 2018, Spring 2018, Fall 2017
Group studies developed to meet specific needs of students.
Special Group Study: Read More [+]  
**Rules & Requirements**
Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.
Repeat rules: Course may be repeated for credit without restriction.

**Hours & Format**
Fall and/or spring: 15 weeks - 1-3 hours of directed group study per week

**Additional Details**
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Special Group Study: Read Less [-]

**CY PLAN 101 Introduction to Urban Data Analytics 4 Units**
Terms offered: Spring 2020, Spring 2019, Spring 2017
This course (1) provides a basic intro to census and economic data collection, processing, and analysis; (2) surveys forecasting and modeling techniques in planning; (3) demonstrates the uses of real-time urban data and analytics; and (4) provides a socio-economic-political context for the smart cities movement, focusing on data ethics and governance.
Introduction to Urban Data Analytics: Read More [+]  
**Objectives & Outcomes**
Student Learning Outcomes: This course will teach students systematic approaches to collecting, analyzing, modeling, and interpreting quantitative data used to inform robust research, and, ultimately, urban planning practice and policymaking. This contributes to the urban studies major’s objective of introducing students to “conceptual tools, analytical methods, and theoretical frameworks to understand urban environments, such as economic analysis, social science theory, and visualization technologies,” with the objective of training undergraduates for a future career or further graduate study in the field of urban studies and planning.

**Rules & Requirements**
Prerequisites: Upper division standing

**Hours & Format**
Fall and/or spring: 15 weeks - 3 hours of lecture and 1.5 hours of laboratory per week

**Additional Details**
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructors: Chapple, Karen

Introduction to Urban Data Analytics: Read Less [-]
CY PLAN 110 Introduction to City Planning 4 Units
Terms offered: Fall 2019, Summer 2019 First 6 Week Session, Fall 2018
Survey of city planning as it has evolved in the United States since 1800 in response to physical, social, and economic problems; major concepts and procedures used by city planners and local governments to improve the urban environment.
Introduction to City Planning: Read More [+]
Rules & Requirements
Prerequisites: Open to majors in all fields

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Summer:
6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week
8 weeks - 6 hours of lecture and 1.5 hours of discussion per week

Additional Details
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

Introduction to City Planning:
Read Less [-]

CY PLAN 113A Economic Analysis for Planning 3 Units
Terms offered: Fall 2019, Spring 2019, Fall 2017
Introduction to economic concepts and thinking as used in planning. Micro-economic theory is reviewed and critiqued.
Economic Analysis for Planning: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 8 weeks - 6 hours of lecture per week

Additional Details
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

Economic Analysis for Planning: Read Less [-]

CY PLAN 113B Community and Economic Development 4 Units
Terms offered: Spring 2020, Fall 2019, Fall 2018
Introduction to political, economic and social issues involved in theory and practice of community economic development. Focus on national economic and social policies, role of local community economic development corporations (CDCs), resolution of conflicts between private-sector profitability and public sector (community) accountability through critical use of the planning process.
Community and Economic Development: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Community and Economic Development: Read Less [-]

CY PLAN 114 Introduction to Urban and Regional Transportation 3 Units
Terms offered: Spring 2020, Summer 2019 First 6 Week Session, Fall 2018
This course is designed to introduce students to the characteristics of urban transportation systems, the methods through which they are planned and analyzed, and the dimensions of key policy issues confronting decision makers.
Introduction to Urban and Regional Transportation: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer:
6 weeks - 7.5 hours of lecture per week
8 weeks - 6 hours of lecture per week

Additional Details
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Chatman
Introduction to Urban and Regional Transportation: Read Less [-]
CY PLAN 115 Urbanization in Developing Countries 4 Units
Terms offered: Fall 2013, Fall 2012, Fall 2011
The course covers issues of development and urbanization from the era of colonialism to the era of contemporary globalization. Themes include modernization, urban informality and poverty, transnational economies, and the role of international institutions and agencies.
Urbanization in Developing Countries: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Summer: 8 weeks - 6 hours of lecture per week

Additional Details
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Roy

Urbanization in Developing Countries: Read Less [-]

CY PLAN N115 Urbanization in Developing Countries 3 Units
Terms offered: Summer 2019 First 6 Week Session, Summer 2018 First 6 Week Session, Summer 2003 10 Week Session
The course covers issues of development and urbanization from the era of colonialism to the era of contemporary globalization. Themes include modernization, urban informality and poverty, transnational economies, and the role of international institutions and agencies.
Urbanization in Developing Countries: Read More [+]

Hours & Format
Summer: 6 weeks - 8 hours of lecture per week
8 weeks - 6 hours of lecture per week

Additional Details
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

Urbanization in Developing Countries: Read Less [-]

CY PLAN 116 Urban Planning Process--The Undergraduate Planning Studio 4 Units
Terms offered: Spring 2020, Spring 2019, Spring 2018
An intermediate course in the planning process with practicum in using planning techniques. Classes typically work on developing an area or other community plan. Some lectures, extensive field and group work, oral and written presentations of findings.
Urban Planning Process--The Undergraduate Planning Studio: Read More [+]

Rules & Requirements
Prerequisites: Upper division standing; 110 or consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 4 hours of lecture per week
Summer: 8 weeks - 7.5 hours of lecture per week

Additional Details
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

Urban Planning Process--The Undergraduate Planning Studio: Read Less [-]

CY PLAN 117AC Urban & Community Health 3 Units
Terms offered: Spring 2020, Spring 2019, Spring 2018
This course will focus on the history, research methods and practices aimed at promoting community and urban health. The course will offer students frameworks for understanding and addressing inequities in community health experienced by racial and ethnic groups in the United States. The course will take a historical and comparative perspective for understanding the multiple contributors to health and disease in communities and how residents, scientists and professionals are working to improve community health.
Urban & Community Health: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Letter grade. Alternative to final exam.
Instructor: Corburn
Formerly known as: City and Regional Planning 117

Urban & Community Health: Read Less [-]
**CY PLAN 118AC The Urban Community 4 Units**

Terms offered: Spring 2020, Summer 2019 First 6 Week Session, Spring 2019

This course looks at the idea and practice of community in cities and suburbs and at the dynamics of neighborhood and community formation. Topics include urban social geography, ethnicity, and identity, residential choice behavior, the political economy of neighborhoods, planning for neighborhoods and civic engagement. Instructors emphasize different topics. Class size limits depend on the instructor.

The Urban Community: Read More [+]

**Hours & Format**

**Fall and/or spring:** 15 weeks - 3 hours of lecture and 1 hour of discussion per week

**Summer:**
- 6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week
- 8 weeks - 6 hours of lecture and 1.5 hours of discussion per week

**Additional Details**

**Subject/Course Level:** City and Regional Planning/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Instructor:** Hutson

The Urban Community: Read Less [-]

**CY PLAN 119 Planning for Sustainability 4 Units**

Terms offered: Fall 2019, Fall 2018, Fall 2017

This course examines how the concept of sustainable development applies to cities and urban regions and gives students insight into a variety of contemporary urban planning issues through the sustainability lens. The course combines lectures, discussions, student projects, and guest appearances by leading practitioners in Bay Area sustainability efforts. Ways to coordinate goals of environment, economy, and equity at different scales of planning are addressed, including the region, the city, the neighborhood, and the site.

**Planning for Sustainability: Read More [+]**

**Objectives & Outcomes**

**Student Learning Outcomes:** Describe a variety of planning approaches designed to advance and evaluate the interconnected goals related to sustainability, such as environmental preservation, social equity, and economic development. Identify how different societies around the globe grapple with the ethical, policy, and practical challenges presented by socioeconomic disparity and the goal of creating and maintaining a healthy urban (and suburban and peri-urban) environment. Know ways in which planners and planning practice have succeeded in dismantling the policies, institutions, and decisions that oppose the needs of the disadvantaged. Understand the principles, tools, and techniques available for planning and developing sustainable communities at multiple scales.

**Rules & Requirements**

**Prerequisites:** Open to majors in all fields

**Hours & Format**

**Fall and/or spring:** 15 weeks - 3 hours of lecture and 1 hour of discussion per week

**Additional Details**

**Subject/Course Level:** City and Regional Planning/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Instructor:** Acey

Planning for Sustainability: Read Less [-]
Urban and Sub-national Politics in Developing Countries

This course reviews what society and local communities can do in terms of policies, programs, and local planning to address the needs of citizens with disabilities. Attention will be given to the economics of disability, to the politics of producing change, and to transportation, housing, public facilities, independent living, employment, and income policies. Options will be assessed from the varying perspectives of those with disabilities and the broader society.

Community Planning and Public Policy for Disability: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Dear

Community Planning and Public Policy for Disability: Read Less [-]

Urban and Sub-national Politics in Developing Countries

Over half of the world's population is now urban. As urban populations swell, metropolitan areas in both the developed and the developing world struggle to provide basic services and address the negative externalities associated with rapid growth. Sanitation, transportation, pollution, energy services, and public safety typically fall to sub-national governments. Yet local sub-national institutions face difficulties as they tackle these challenges because development tends to spill over political boundaries and resources are limited. Such difficulties are particularly acute in the developing world due to tighter resource constraints, weak institutions, and the comparative severity of the underlying problems. Moreover, democratization and decentralization suggest that urban governance and service delivery may have become more democratic, but present challenges with respect to priority setting, coordination, and corruption.

Urban Design: City-Building and Place-Making

The course is concerned with the multidisciplinary field and practice of urban design. It includes a review of historical approaches to urban design and current movements in the field, as well as discussion of the elements of urban form, theories of good city form, scales of urban design, implementation approaches, and challenges and opportunities for the discipline. Learning from cities via fieldwork is an integral part of the course.

Urban Design: City-Building and Place-Making: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Macdonald

Urban Design: City-Building and Place-Making: Read Less [-]

Research Seminar in Urban Studies

A capstone course for urban studies majors; open to other majors by instructor approval. Topical focus varies by semester. The course involves student production of a high-quality research report from inception to completion. Lectures introduce a range of research skills typical in urban studies, and cover specific domain knowledge necessary for the completion of the research project. Students identify a research topic subject to instructor approval and prepare a formal research proposal, undertaking the analysis specified in the proposal, making public presentations of their findings, and producing a professional-quality research report.

Research Seminar in Urban Studies: Read More [+]

Objectives & Outcomes

Student Learning Outcomes: Conceptualizing, executing and completing an individual research project, including public presentations of findings, revision based on critical feedback, and the production of a final research report to the highest professional standards. Devising policy and practical solutions to address borderland planning problems. The fundamental principles of research project design, scheduling, and execution, as well as exposure to a variety of methodological approaches using visual, cartographic, quantitative and qualitative data sources.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details

Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Letter grade. Alternative to final exam.

Research Seminar in Urban Studies: Read Less [-]
CY PLAN 190 Advanced Topics in Urban Studies 1 - 4 Units
Terms offered: Spring 2020, Fall 2019, Spring 2019
Analysis of selected topics in urban studies. Topics vary by semester.
Advanced Topics in Urban Studies: Read More [+]
Rules & Requirements
Prerequisites: Upper division standing
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 1-4 hours of lecture per week
Summer: 8 weeks - 2-8 hours of lecture per week
Additional Details
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam not required.
Advanced Topics in Urban Studies: Read Less [-]

CY PLAN 197 Field Studies 1 - 3 Units
Terms offered: Summer 2019, Spring 2018, Fall 2017
Supervised experiences in the study of off-campus organizations relevant to specific aspects of city planning. Regular individual meetings with faculty sponsor and a written report are required.
Field Studies: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of fieldwork per week
Additional Details
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.
Field Studies: Read Less [-]

CY PLAN 198 Special Group Study 1 - 3 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Group studies developed to meet specific needs of students.
Special Group Study: Read More [+]
Rules & Requirements
Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 1-3 hours of directed group study per week
Additional Details
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.
Special Group Study: Read Less [-]

CY PLAN 199 Special Study for Advanced Undergraduates 1 - 4 Units
Terms offered: Summer 2019 Second 6 Week Session, Summer 2018 Second 6 Week Session, Summer 2017 Second 6 Week Session
Regular meetings with faculty overseer.
Special Study for Advanced Undergraduates: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Summer:
6 weeks - 2.5-10 hours of independent study per week
8 weeks - 1.5-7.5 hours of independent study per week
Additional Details
Subject/Course Level: City and Regional Planning/Undergraduate
Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.
Special Study for Advanced Undergraduates: Read Less [-]