Urban Studies

Bachelor of Arts
The study of cities is a vital part of a liberal arts curriculum. During this moment of global change, such forms of knowledge are of critical importance. The world is more urban now than in any other era in human history, and with this rapid urbanization has come the crucial role of cities as sites of economic development, crucibles of civic citizenship, and spaces of cultural imagination.

The Urban Studies major is housed in the Department of City and Regional Planning (DCRP) of the College of Environmental Design. The major seeks to introduce students to the following bodies of knowledge:

1. Historical and contemporary analysis of American and global urbanization, urbanism, urban societies, and urban political economies
2. Conceptual tools, analytical methods, and theoretical frameworks to understand urban environments such as economic analysis, social science theory, and visualization technologies
3. Forms, functions, and practices of urban planning and design, metropolitan governance, social movements, and social justice, including issues such as transportation planning, community development, and housing
4. Ways of providing more humane, equitable, environmentally sensitive, and efficient settlements as well as ways to lead change for better urban futures

The major trains undergraduates for a variety of future careers and fields of graduate study that are related to urban studies and planning. These include practice-oriented fields such as urban planning, law, non-profit management, and public policy as well as research-oriented fields such as geography, sociology, and anthropology. Above all, the intent of the major is to produce urban citizens and global leaders.

Admission to the Major
Students must declare one of the CED majors at the time of application to the college; however, current UC Berkeley students may apply to change into CED. Transfer applicants must complete two years worth of lower division coursework to be considered for admission to CED. For information regarding admission to the major for freshmen, transfer students, and current students who wish to change majors or colleges, please see the College of Environmental Design (CED) page (http://guide.berkeley.edu/undergraduate/colleges-schools/environmental-design/#choosingamajortext) in this Guide or the CED website (http://ced.berkeley.edu/admissions/undergraduate).

Minors offered by the Department of City and Regional Planning
City Planning (http://guide.berkeley.edu/undergraduate/degree-programs/city-planning)  
Geospatial Information Science and Technology (http://guide.berkeley.edu/undergraduate/degree-programs/geospatial-information-science-technology) (offered in conjunction with the Department of Environmental Science, Policy, and Management in the College of Natural Resources)

In addition to the University, campus, and college requirements, listed on the College Requirements tab, students must fulfill the below requirements specific to their major program.

General Guidelines
1. All lower division courses taken in fulfillment of major requirements must be completed with a grade of C- or better.
2. Courses taken to fulfill lower division major requirements may also be used to fulfill seven-course breadth.
3. A minimum grade point average (GPA) of 2.0 must be maintained in upper and lower division courses used to fulfill the major requirements.
4. A minimum overall GPA of 2.0 for all courses taken at UC Berkeley is required for graduation.
5. Courses used to fulfill upper division requirements may not simultaneously fulfill the breadth requirements.
6. Up to two upper division courses taken at another institution, including an approved study abroad program, may be applied to the major requirements below (if transferable and approved in advance).

For information regarding residence requirements and unit requirements, please see the College Requirements tab.

Summary of Major Requirements
Lower Division Requirements: 4 Courses

Upper Division Urban Studies Core: 2 Courses

Upper Division Major Electives List One: 4 Additional City Planning Courses

Upper Division Major Electives List Two: 2 Courses Outside CED, 1 with International Content

Upper Division Capstone Experience: 1 Course

1 Students admitted to UCB prior to FL16 must complete two capstone courses

Lower Division Major Requirements: Freshman and Sophomore Year

ECON 1 or ECON 2 or ECON C3 Introduction to Economics  
or Introduction to Economics--Lecture Format  
or Introduction to Environmental Economics and Policy

or AP Economics, Micro (passing score of 3 or above)

Select one of the following: 4

STAT 2 or STAT C8 or STAT 20 or STAT 21 Introduction to Statistics  
Foundations of Data Science  
Introduction to Probability and Statistics  
Introductory Probability and Statistics for Business

Select two courses from the four areas below:  
Community Development

DEMOG 5 or EDUC 40AC or LGBT 20AC Fundamentals of Population Science or Experiencing Education: Political Economy, White Supremacy, and Educational Desire or Alternative Sexual Identities and Communities in Contemporary American Society
### Upper Division Urban Studies Core: 2 Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV DES 100</td>
<td>The City: Theories and Methods in Urban Studies</td>
<td>4</td>
</tr>
<tr>
<td>CY PLAN 110</td>
<td>Introduction to City Planning</td>
<td>4</td>
</tr>
</tbody>
</table>

### Upper Division Major Electives List One: 4 Additional City Planning Courses

Select four additional courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CY PLAN 101</td>
<td>Introduction to Urban Data Analytics</td>
<td>4</td>
</tr>
<tr>
<td>CY PLAN 111</td>
<td>Course Not Available</td>
<td>3</td>
</tr>
<tr>
<td>CY PLAN 113A</td>
<td>Economic Analysis for Planning</td>
<td>3</td>
</tr>
<tr>
<td>CY PLAN 113B</td>
<td>Community and Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>CY PLAN 114</td>
<td>Introduction to Urban and Regional Transportation</td>
<td>3</td>
</tr>
<tr>
<td>CY PLAN 115</td>
<td>Urbanization in Developing Countries</td>
<td>4</td>
</tr>
<tr>
<td>CY PLAN 116</td>
<td>Urban Planning Process--The Undergraduate Planning Studio</td>
<td>4</td>
</tr>
<tr>
<td>CY PLAN 117A</td>
<td>Urban &amp; Community Health</td>
<td>3</td>
</tr>
<tr>
<td>CY PLAN 118AT</td>
<td>The Urban Community</td>
<td>4</td>
</tr>
<tr>
<td>CY PLAN 119</td>
<td>Planning for Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>CY PLAN 120</td>
<td>Community Planning and Public Policy for Disability</td>
<td>3</td>
</tr>
<tr>
<td>CY PLAN 139</td>
<td>Urban and Sub-national Politics in Developing Countries</td>
<td>4</td>
</tr>
<tr>
<td>CY PLAN 140</td>
<td>Urban Design: City-Building and Place-Making</td>
<td>3</td>
</tr>
<tr>
<td>CY PLAN 180</td>
<td>Research Seminar in Urban Studies</td>
<td>3</td>
</tr>
<tr>
<td>CY PLAN 190</td>
<td>Advanced Topics in Urban Studies</td>
<td>1-4</td>
</tr>
</tbody>
</table>

* Courses taken to fulfill the upper division capstone experience requirement may not also be used to fulfill this Urban Studies core requirement.

2 Graduate-level CY PLAN courses may be approved to satisfy the core requirement. Please see your major adviser for further information.

### Upper Division Major Electives List Two: 2 Interdisciplinary Courses Outside of CED, at least 1 with International Content

Students admitted to Berkeley FL16 and later must select two urban studies-related courses outside CED from the following list of courses. One of the two courses must have international content, marked with an asterisk (*). Students can also petition to have other urban studies-related courses count for this requirement. Students admitted to UCB prior to FL16 must select three courses from this list; at least one of the three must have international content.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICAM 107</td>
<td>Race and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>AFRICAM 133A</td>
<td>What is the Role of Race in Urban Schools?</td>
<td>3</td>
</tr>
<tr>
<td>AMERSTD 102</td>
<td>Examining U.S. Cultures in Place</td>
<td>4</td>
</tr>
<tr>
<td>ANTHRO 139</td>
<td>Controlling Processes</td>
<td>4</td>
</tr>
<tr>
<td>ANTHRO 148</td>
<td>Anthropology of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>ANTHRO 157</td>
<td>Anthropology of Law</td>
<td>4</td>
</tr>
<tr>
<td>ASAMST 150</td>
<td>Gender and Generation in Asian American Families</td>
<td>4</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>CIV ENG 156</td>
<td>Infrastructure Planning and Management</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 167</td>
<td>Engineering Project Management</td>
<td>3</td>
</tr>
<tr>
<td>DEMOG/SOCIOL</td>
<td>Sex, Death, and Data</td>
<td>4</td>
</tr>
<tr>
<td>C126</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEMOG 145AC/History 139B</td>
<td>The American Immigrant Experience</td>
<td>4</td>
</tr>
<tr>
<td>ECON 115</td>
<td>The World Economy in the Twentieth Century or History 116The International Economy of the 20th Century</td>
<td>4</td>
</tr>
<tr>
<td>ENVCON C102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 121</td>
<td>Industrial Organization and Public Policy</td>
<td>4</td>
</tr>
<tr>
<td>ECON C125/</td>
<td>Environmental Economics</td>
<td>4</td>
</tr>
<tr>
<td>ENVECON C101</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 131</td>
<td>Public Economics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 133</td>
<td>Global Inequality and Growth</td>
<td>4</td>
</tr>
<tr>
<td>ECON 155</td>
<td>Urban Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON C171/</td>
<td>Economic Development</td>
<td>4</td>
</tr>
<tr>
<td>ENVCON C151</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 174</td>
<td>Global Poverty and Impact Evaluation</td>
<td>4</td>
</tr>
<tr>
<td>EDUC C181</td>
<td>What is the Role of Race in Urban Schools?</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 186AC/</td>
<td>The Southern Border</td>
<td>4</td>
</tr>
<tr>
<td>ETH STD 159AC/</td>
<td></td>
<td></td>
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<tr>
<td>GEOG 159AC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENVECON 101</td>
<td>Ecology and Society</td>
<td>3</td>
</tr>
<tr>
<td>ENVECON C101</td>
<td>Environmental Economics</td>
<td>4</td>
</tr>
<tr>
<td>ENVECON C102</td>
<td>Natural Resource Economics</td>
<td>4</td>
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<tr>
<td>ENVECON C151</td>
<td>Economic Development</td>
<td>4</td>
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<tr>
<td>ESPM 102D</td>
<td>Climate and Energy Policy</td>
<td>4</td>
</tr>
<tr>
<td>ESPM 155AC</td>
<td>Sociology and Political Ecology of Agro-Food Systems</td>
<td>4</td>
</tr>
<tr>
<td>ESPM 160AC/HISTORY 120AC</td>
<td>American Environmental and Cultural History</td>
<td>4</td>
</tr>
<tr>
<td>ESPM 161</td>
<td>Environmental Philosophy and Ethics</td>
<td>4</td>
</tr>
<tr>
<td>ESPM 163AC/</td>
<td>Environmental Justice: Race, Class, Equity, and the Environment</td>
<td>4</td>
</tr>
<tr>
<td>SOCIOL 137AC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESPM 165</td>
<td>International Rural Development Policy</td>
<td>4</td>
</tr>
<tr>
<td>ESPM 167</td>
<td>Course Not Available</td>
<td>4</td>
</tr>
<tr>
<td>ESPM 168</td>
<td>Political Ecology</td>
<td>4</td>
</tr>
<tr>
<td>ESPM 169</td>
<td>International Environmental Politics</td>
<td>4</td>
</tr>
<tr>
<td>ETH STD 159AC</td>
<td>The Southern Border</td>
<td>4</td>
</tr>
<tr>
<td>ETH STD 181AC</td>
<td>Prison</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>Economic Geography of the Industrial World</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 123</td>
<td>Postcolonial Geographies</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 125</td>
<td>The American City</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 130</td>
<td>Food and the Environment</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 159AC</td>
<td>The Southern Border</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 164</td>
<td>Global China</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 170</td>
<td>Special Topics in Geography (only “Post-Socialist Spaces” topic has been approved)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 181</td>
<td>Urban Field Study</td>
<td>4</td>
</tr>
<tr>
<td>GLOBAL 173</td>
<td>International Human Rights</td>
<td>4</td>
</tr>
<tr>
<td>HISTORY 120AC</td>
<td>American Environmental and Cultural History</td>
<td>4</td>
</tr>
<tr>
<td>HISTORY 134A</td>
<td>The Age of the City: The Age of the City, 1825-1933</td>
<td>4</td>
</tr>
</tbody>
</table>

**Upper Division Capstone Experience**
(Required for Students Admitted Fall 2013 and Later)

During the junior and/or senior year, students admitted to UC Berkeley FL 16 and later are required to complete ONE of the following four capstone
experiences. (Students admitted FL13-SP16 must complete TWO capstones.) Courses taken to fulfill the Capstone Experience requirement may be used for the Capstone only and may not also be used to fulfill the Upper Division Urban Studies Core Requirement above or the requirement to complete 3 “Upper Division College of Environmental Design Courses Outside of City Planning”:

1. **Thesis:** This option requires ENV DES 195B (Thesis Research and Writing). Whether a thesis is written or a project is produced, this option should be pursued with a faculty adviser.

2. **Planning Studio:** CY PLAN 116, an advanced synthetic educational experience.


4. **Field experience/internship with a written planning report:** CY PLAN 197. Each student must find their own urban studies-related internship and tenure-track faculty adviser, who will be the faculty of record for a CY PLAN 197 field studies course. CY PLAN 197 must be taken for 3 units and requires a final written report (analyzing the fieldwork and internship experience) submitted to the faculty adviser. To merit 3 units, the internship should require approximately 9 hours per week for 15 weeks. If you are thinking about doing an internship in the summer, see the Urban Studies advisor in 250 Wurster Hall for details.

For College Requirements, please refer to the College of Environmental Design (http://guide.berkeley.edu/undergraduate/colleges-schools/environmental-design/#collegerequirementstext).

Each student’s plan will vary depending on interests. Students should see an advisor if they are interested in applying for graduate school, studying abroad, attending summer school, or pursuing a minor or second major.

For more detailed information regarding the courses listed below (e.g., elective information or GPA requirements), please see the Major Requirements tab.

<table>
<thead>
<tr>
<th>Fall</th>
<th>Units</th>
<th>Spring</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV DES 1</td>
<td>3 ECON 1 (fills Breadth #3, SBS)</td>
<td>4</td>
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<tr>
<td>Reading &amp; Composition A</td>
<td>4-6 MATH 16A</td>
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<td></td>
</tr>
<tr>
<td>Breadth #1</td>
<td>3-4 Reading &amp; Composition B</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Breadth #2</td>
<td>3-4 ENV DES 4A, 4B, or 4C (2 of 3 must be completed to graduate)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>13-17</td>
<td>14</td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Sophomore</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV DES 4A, 4B, or 4C (2 of 3 must be completed to graduate)</td>
<td>3 ENV DES 4A, 4B, or 4C (or Lower Division US Major Elective 2 of 2)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall</th>
<th>Units</th>
<th>Spring</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Division US Major Elective (1 of 2)</td>
<td>3-5 Breadth #5</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Breadth #4</td>
<td>3-4 Breadth #6</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>STAT 2 or C8</td>
<td>4 Breadth #7</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>13-16</td>
<td>12-15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

^One course from Elective List Two must have international content. See the major handbook for more information.

Students must complete 120 units to graduate.

**Learning Goals of the Major**

The Urban Studies major seeks to introduce students to the following bodies of knowledge:

- Historical and contemporary analysis of American and global urbanization, urbanism, urban societies, and urban political economies. Conceptual tools, analytical methods, and theoretical frameworks to understand urban environments such as economic analysis, social science theory, and visualization technologies.

- Forms, functions, and practices of urban planning and design, metropolitan governance, social movements, and social justice including issues such as transportation planning, community development, and housing.

- Ways of providing more humane, equitable, environmentally sensitive, and efficient settlements as well as ways to lead change for better urban futures.

The CED Office of Undergraduate Advising provides a wide array of programmatic and individual advising services to prospective and current students as well as to students in other colleges who are pursuing CED minors or taking CED courses. The professional advising team assists students with a range of issues including course selection, academic decision-making, achieving personal and academic goals, and maximizing the Berkeley experience.

**Advising Staff**

**Architecture Major Advisor:** Isela Pena-Rager

250 Wurster Hall

isela.penarager@berkeley.edu
Mission

The College of Environmental Design (CED) Office of Undergraduate Advising helps students graduate in a timely way with a meaningful educational experience at Berkeley. In alignment with the College’s vision and principles, the Office of Undergraduate Advising collaborates with CED faculty, deans, and student service units across campus toward the common objective of supporting students as they achieve their educational and career goals. The office seeks to achieve the following:

- Attract a highly-motivated, diverse pool of applicants
- Connect students with resources that match their goals and aspirations
- Support the development and transformation of undergraduates as they become educated, active, and socially just citizens of the world
- Prepare graduates who are uniquely qualified and highly sought after in their field of choice

Advising Values
Student Success

Above all, the CED Office of Undergraduate Advising dedicates itself to maximizing student potential and to helping students succeed in their University experiences. The office encourages students to explore their minds and their hearts, challenges them to do their best work, and helps them realize their talents and passions and achieve their goals.

Equity & Inclusion

The College of Environmental Design (CED) is committed to creating an inclusive environment in which any individual or group can be and feel welcomed, respected, supported, and valued. CED aspires to provide fair treatment, access, opportunity, and advancement for all students and to identify and eliminate barriers that prevent the full participation of all.

Health & Well-Being

CED collaborates with campus partners to keep the CED community healthy by helping students balance the physical, intellectual, emotional, social, occupational, spiritual, and environmental aspects of life.

Advising Excellence

In all that the office does, it strives to deliver personalized advising services of the highest quality. The CED Office of Undergraduate Advising seeks to continuously educate itself on developments in the field and to evaluate, improve, and streamline its services to support students in obtaining the best education and experience possible.

Student Groups and Organizations

The college provides opportunities for students to be involved in student chapters of professional organizations such as the American Institute of Architects (AIAS) as well as other student groups like the Berkeley Urban Studies Student Association (BUSSA), the Chicano/Latino Architecture Student Association (CASA), Global Architecture Brigades,
and more. For information regarding student groups, please see the Getting Involved page of the CED website (http://ced.berkeley.edu/ced/students/undergraduate-advising/getting-involved/#orgs).

Study Abroad
The College of Environmental Design (CED) encourages all undergraduates in the college to study abroad. Whether students are interested in fulfilling general education requirements, taking courses related to their major/career, or simply living and studying in a country that is of interest to them, CED will work with students to make it happen. For information about study abroad programs, please see the Berkeley Study Abroad website (http://studyabroad.berkeley.edu).

CED Career Services
The CED Career Services Center (CSC) offers personalized career counseling, a yearly CED Career Fair, and a wide variety of professional-development workshops on topics such as licensure, internships, and applying for graduate school. For further information, please see the CED Career Services website (http://ced.berkeley.edu/ced/students/career).

Prizes and Awards
CED offers a number of annual prizes, awards, scholarships, fellowships, and grants to its currently enrolled students. Some of these prizes and awards are college-wide, and some are geared toward students in specific majors. For general information regarding CED prizes and awards, including application instructions and a deadline calendar, please click here (http://ced.berkeley.edu/ced/students/prizes).

CED Events and Exhibits Calendar
CED and Wurster Hall is home to a variety of events, lectures, and exhibitions that welcome professors, professionals, and friends to the college to discuss and celebrate the community and professions. Through events and media, CED is constantly creating ways to keep the college connected and up-to-date. To view this calendar, please click here (http://ced.berkeley.edu/events-media/events).

CED on Facebook (https://www.facebook.com/groups/59611725522)
CED on Twitter (https://twitter.com/CEDNews)
CED Lecture Series
The Departments of Architecture, City and Regional Planning, and Landscape Architecture and Environmental Planning each sponsor lecture series which offers students the opportunity to hear internationally-acclaimed speakers. These speakers often also participate in classes and seminars as part of their visit to campus. For a schedule of speakers and events in these lecture series, please see the CED website (http://ced.berkeley.edu/events-media/lecture-series).

WursterLife
WursterLife (https://ced.berkeley.edu/ced/alumni-friends/wursterlife) is a closed-network platform that enables CED students and alumni from across the globe to connect with classmates, find alumni by practice area, geographic region, affinity group, or shared interest, share professional updates, news, photos, events, and jobs, enhance your career through your alumni connections, and find ways to stay engaged with the UC Berkeley College of Environmental Design.

Research Opportunities, Internships, Public Service, and Volunteer Opportunities
Check out the CED Office of Undergraduate Advising website (http://ced.berkeley.edu/ced/students/undergraduate-advising) for additional opportunities.

Urban Studies
Expand all course descriptions [+ ] Collapse all course descriptions [- ]
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.

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 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.

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 [-]
Data Science for Smart Cities:

Also listed as:

Instructor:

Grading/Final exam status:

Subject/Course Level:

Additional Details

Hours & Format

the C8 course

Data Science connector course if they wish, concurrently or after taking

COMPSCI C8/INFO C8/STAT C8. Students may take more than one

meant to be taken concurrent with or after Foundations of Data Science

Prerequisites:

Rules & Requirements

Use data analytics in the smart city domain.

Think critically about how to assess analytics for cities.

Foster critical thinking about real-world actionability from analytics.

Learn how to use data science techniques in urban decision-making and

scenario generation.

Learn how to use data science techniques in urban decision-making and

as well as regression modelling.

Develop intuition in various machine learning classification algorithms, as

well as regression modelling.

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.

Course Objectives:

Objectives & Outcomes

Become familiar with urban big data and sensor
data collection techniques.

Develop intuition in various machine learning classification algorithms, as

well as regression modelling.

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 More [+]

Objectives & Outcomes

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

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well as regression modelling.

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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: Spring 2020, 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 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: Spring 2020, 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 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.
Instructor: Roy

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: Also listed as:

Instructor:
Grading/Final exam status:
Subject/Course Level:
Additional Details
Discussion per week
Fall and/or spring:
Hours & Format

Urban and Sub-national Politics in Developing Countries: challenges with respect to priority setting, coordination, and corruption. And service delivery may have become more democratic, but present democratization and decentralization suggest that urban governance and the comparative severity of the underlying problems. Moreover, developing world due to tighter resource constraints, weak institutions, 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 and Sub-national Politics in Developing Countries: Read More [+]

CY PLAN C139 Urban and Sub-national Politics in Developing Countries 4 Units

Terms offered: Fall 2017, Fall 2013
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 and Sub-national Politics in Developing Countries: 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 [-]

CY PLAN 140 Urban Design: City-Building and Place-Making 3 Units

Terms offered: Fall 2019, Fall 2018, Fall 2017
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 [-]

CY PLAN 180 Research Seminar in Urban Studies 3 Units

Terms offered: Spring 2020, Spring 2019, Spring 2018
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 [-]

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