

## **SSCI 165Lgw, Sustainability Science in the City**

### *Syllabus*

**Units:** 4

**Term Day Time:** Fall 2023, MWF from-11:00-11:50 a.m.

**Location:** MRF 340

**Instructor:** Robert O. Vos, Ph.D., GISP

**Office:** AHF B57B

**Regular Office Hours:** Mon 9:30-10:30 am and Fri 1:00-2:00 pm PT. Also available by appointment via email.

**Contact Info:** [vos@usc.edu](mailto:vos@usc.edu), 213-821-1311, see contacts page on Blackboard for Zoom Room

**Laboratory Co-Instructor:** TBD/TBA

**Office:** AHF B55

**Regular Office Hours:** TBD/TBA

**Contact Info:** TBD/TBA

**Laboratory Co-Instructor:** TBD/TBA

**Office:** AHF B55

**Regular Office Hours:** TBD/TBA

**Contact Info:** TBD/TBA

**Library Help:** Andy Rutkowski

**Office:** LIPA B40-A

**Office Hours:** Thu 10 am-12 pm

**Contact Info:** [arutkows@usc.edu](mailto:arutkows@usc.edu), see contact page on Blackboard for Zoom Room

**IT Help:** Myron Medalla

**Office:** AHF B56B

**Contact Info:** [spatial\\_support@usc.edu](mailto:spatial_support@usc.edu), 213-740-2775

## Course Scope and Purpose

Sustainability is among the most pressing scientific and social challenges of our time. Typically defined as utilizing natural resources to create a high quality of life for *future* as well as current generations, the idea of sustainability has provided a strong orientation towards a long-term re-thinking of the human role in and domination of ecosystems. Yet, despite the emergence of a sustainability policy discourse in the late 1980s, global climate change, ocean degradation, deforestation, habitat loss, and species endangerment continue nearly unabated. This situation seriously threatens the inventory of natural capital for present and future generations.

In response to such ongoing challenges, the field of *sustainability science* emerged in the late 1990s. It is a multidisciplinary collection of social, physical, and life sciences that work to understand the complex coupling of human and natural systems across global, national, regional, and local scales. Without a deep understanding and reconsideration of the human role in natural systems, it is impossible to envision a sustainable future. Thus, policymakers rely upon various forms of scientific knowledge and the scientific method itself to understand how to re-chart the human journey towards sustainability.

This course is a Social Analysis (Category C) and a Citizenship in a Global Era (Category G) course in USC's General Education program. In this course, you will learn how social and ethical theories of sustainability relate to the emergence of sustainability science and how theory and empirical work are mutually constitutive. You will learn why the social and natural sciences and their methods are important to policies and planning for sustainable cities, and how data is used from the social and natural sciences to assess the validity of arguments about reshaping cities for sustainability.

In 2008, an important global threshold was reached, with over 50% of people living in cities. According to UN forecasts, by 2050 70% of the Earth's growing population will be living in urban areas. The rapid growth of cities across the world results from a common undercurrent of global political and economic forces that rests on a history of colonialism. An understanding of these forces and how they might be reshaped to create sustainable forms of urban development will be key to our enquiry. Indeed, issues of global sustainability are increasingly *urban* issues: land use, population, consumption, industrial organization, and infrastructural technologies (e.g., energy).

In a series of laboratory experiences and linked writing exercises, you will learn how to articulate the relationships among observed phenomena, the analytical approaches and methods used to understand them, and their societal implications. For example, one focus of sustainability science is improving our understanding of how the Earth's land cover and land use is changing as a result the growth of cities, and what it means for people and places. In the laboratory, you will learn how technological tools and data, such as geographic information systems and satellite imagery, are used for measuring land use/land cover change and how observed land use/land cover changes are linked to principles of urban form and urban economics. In a related writing assignment, you will consider how land use/land cover influences social well-being, economic livelihoods, and land use politics and regulation.

Last Revised on 3/8/2023

## **Learning Outcomes**

Upon successfully completing this course, students should be able to:

- Describe the sustainability problematic and the problem of urban sustainability as a coupled human and natural system;
- Classify both natural and social systems in cities and explain how they are interwoven;
- Understand how data collection, non-experimental research design, and computational modeling are used to analyze urban sustainability problems and solutions;
- Use and interpret spatial data in a professional geographic information system (GIS) to analyze issues of urban sustainability;
- Communicate the science and policy of urban sustainability by leveraging digital resources and applying basic cartographic principles;
- Articulate alternative pathways toward sustainable cities and evaluate scientific claims related to such alternatives;
- Assess how applications of particular scientific methods influence or are influenced by debates over urban sustainability.

At the start of the course, students may vary in their competency levels on these abilities. You can expect to acquire these abilities only if you honor all course policies, attend classes regularly, complete all assigned work in good faith and on time, and meet all other course expectations of you as a student.

**Prerequisite(s):** None

**Co-Requisite(s):** None

## **Class Conduct**

**Harassment, sexual misconduct, interpersonal violence, and stalking** are not tolerated by the university. All faculty and most staff are considered Responsible Employees by the university and must forward all information they receive about these types of situations to the Title IX Coordinator. The Title IX Coordinator is responsible for assisting students with supportive accommodations, including academic accommodations, as well as investigating these incidents if the reporting student wants an investigation. The Title IX office is also responsible for coordinating supportive measures for transgender and nonbinary students such as faculty notifications, and more. If you need supportive accommodations, you may contact the Title IX Coordinator directly ([titleix@usc.edu](mailto:titleix@usc.edu) or 213-821-8298) without sharing any personal information with me. If you would like to speak with a confidential counselor, Relationship and Sexual Violence Prevention Services (RSVP) provides 24/7 confidential support for students (213-740-9355 (WELL); press 0 after hours)

**Diversity and Inclusion** – It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource,

Last Revised on 3/8/2023

strength and benefit. It is my intent to present materials and activities that are respectful to everyone, and you are also expected to respect of others regardless of their race, ethnicity, gender identity and expressions, cultural beliefs, religion, sexual orientation, national origin, age, abilities, ideas and perspectives, or socioeconomic status. Your suggestions are encouraged and appreciated. Feel free to let me know ways to improve the effectiveness of the course for you personally or for other students.

## Required Readings and Supplementary Materials

Please acquire the texts listed below. All are available at the USC bookstore. All other supplementary reading listed in the syllabus is available under the tab marked “Readings” on the course Blackboard.

The required textbooks for this course are:

- Drakais-Smith, David. 2000. *Third World Cities*, 2<sup>nd</sup> Edition. New York: Routledge. While you may purchase this at the USC bookstore if you wish to own a bound (hard) copy, it is available online through the USC Libraries. Sign on to the USC Libraries and search for this title.
- Hagen, Bjoern and K. David Pijawka. 2020. *Sustainability for the 21st Century: Pathways, Programs, and Policies*, 3rd Edition. Dubuque, IA: Kendall Hunt. While you may purchase this book the USC bookstore, I will place a bound (hard) copy at Leavey Library Reserves.
- Wheeler, Stephen M. 2013. *Planning for Sustainability: Creating Livable, Equitable, and Ecological Communities*, 2<sup>nd</sup> Edition. New York: Routledge. While you may purchase this book at the USC bookstore, it is available online through the USC Libraries. Sign on to the USC Libraries and search for this title.

Supplementary readings for this course, located on the “Readings” tab on Blackboard, are:

- Bullen, Anna and Mark Whitehead. 2005. “Negotiating the Networks of Space, Time, and Substance: A Geographical Perspective on Sustainable Citizen.” *Citizenship Studies* 9, No. 5: 499-516.
- Cronon, William. 1996. “The Trouble with Wilderness: Or, Getting Back to the Wrong Nature.” *Environmental History* 1, no. 1 (January): 7-28
- Goldstein, Noah J., Robert B. Cialdini, and Vladas Griskevicius. 2008. “A Room with a Viewpoint: Using Social Norms to Motivate Conservation in Hotels.” *Journal of Consumer Research* 35: 472-482.
- Guhathakurta, Subhrajit. 2017. “Examining Urban Sustainability through Urban Models” pp. 111-126 in B. Hagen and K. D. Pijawka (eds.) *Sustainability for the 21st Century* (2nd Edition). Dubuque, IA: Kendall Hunt.
- Maniates, Michael. 2002. “Individualization: Plant a Tree, Buy a Bike, Save the World?” In *Confronting Consumption*, edited by Thomas Princen, Michael Maniates and Ken Conca, 43-66. Cambridge, MA: MIT Press.

- McAslan, Devon. 2015. Assessing Urban Sustainability: Using Indicators to Measure Progress” In *Sustainability for the 21<sup>st</sup> Century* (1<sup>st</sup> Edition), edited by K. David Pijawka, 235-258. Dubuque, IA: Kendall Hunt.
- Princen, Thomas. 2002. “Consumption and its Externalities: Where Economy Meets Ecology.” In *Confronting Consumption*, edited by Thomas Princen, Michael Maniates and Ken Conca, 23-42. Cambridge, MA: MIT Press.
- Pulido, Laura, Steve Sidawi, and Robert O. Vos. 1996. “An Archeology of Environmental Racism in Los Angeles.” *Urban Geography* 17, no. 5: 419-439.
- Seto, Karen C., Burak Güneralp, and Lucy R. Hutyra. 2012. “Global Forecasts of Urban Expansion to 2030 and Direct Impacts on Biodiversity and Carbon Pools.” *Proceedings of the National Academy of Sciences* 109, no. 40: 16083-16088.
- Webster, Douglas, Feifei Zhang, and Jianming Cai. 2017 “China’s Pursuit: Smart Sustainable Urban Environments” pp. 307-331 in B. Hagen and K. D. Pijawka (eds.) *Sustainability for the 21st Century* (2nd Edition). Dubuque, IA: Kendall Hunt.
- Vos, Robert O. 2007. Defining Sustainability: a Conceptual Orientation.” *Journal of Chemical Technology and Biotechnology* 82: 334-339.
- Wolch, Jennifer, Jason Byrne, and Joshua P. Newell. 2014. “Urban Green Space, Public Health, and Environmental Justice: the Challenge of Making Cities ‘Just Green Enough’.” *Landscape and Urban Planning* 125: 234-244.

## Description and Assessment of Assignments

Students must attend all regularly scheduled lectures/in-class exercises, participate in labs, write in the reading journal discussion forum, deliver a city sustainability profile, write a policy essay, sit for mid-term and final examinations, and produce a final project called a “story map.”

### **Labs**

In addition to the lectures and in-class exercises, there is a set of 10 labs and related deliverables across the semester. These laboratory experiences are designed to introduce you to the tools of spatial and social analysis as well as to give you practical experience in implementing these tools to explore various problems within the framework of the scientific method. These assignments are linked to the lectures, but do not duplicate the lecture experience. You must register for one laboratory session in addition to registering for the lectures.

**Absences from lab sessions** must be requested *in advance* by sending an email to the laboratory instructor for your lab section. Excused absences from labs will be granted only for valid reasons; please notify us of the reason for your absence in your email.

### **Reading Journal Discussion Forum**

At the start of the semester, students will participate in reading journal discussion forum. Here you will find an article from major press outlets (e.g., CityLab, Wall Street Journal, New York

Last Revised on 3/8/2023

Times, and Los Angeles Times) on an issue of sustainable cities that relates to one of our assigned course readings. You will post a short summary of the article and explain how it relates to the reading. You will also read and briefly comment on posts by two of your classmates.

### ***City Sustainability Profile Presentation***

Working with small team of students in your lab, you will create a slide deck and deliver a presentation that gives a profile of an urban region. In each lab class, teams will create profiles for a variety of urban regions around the world based on the home cities of students in the lab. In the city sustainability profile, you will research and relate the city you are profiling to the key course concepts of urban population growth, the urban footprint, the global context of urban sustainability, and the sustainability problematic. You will also brainstorm a sustainability solution for the city you profile.

### ***Policy Essay***

There will be one policy essay written in response to a prompt from the instructor. This assignment will have detailed requirements with respect to required outside research and source citations. Please follow the requirements in the assignment very carefully.

### ***Story Map***

The final project in this course is a story map, which will be done in small groups within your lab sections. Story maps tell about places, issues, and trends by enriching digital maps with content like various kinds of graphs, text, photographs, video, and audio. The underlying data often depict the coupling of social and natural systems. These may be things like wetland areas, land cover, and census data, and may also include live data streams such as temperature, precipitation, and traffic. They often present scientific data and analysis, but they are mainly designed for the public and do not require their users to have special knowledge or skills in Geographic Information Systems (GIS).

Story maps are increasingly in use in sustainability science and are an important tool to describe the challenges of sustainable cities and pathways toward sustainability. For example, you can see an interactive story map that describes land use footprints of megacities here:

<http://storymaps.esri.com/stories/2014/growth-of-cities/>. This story map was created as part of the Smithsonian's series on *Living in the Anthropocene: The Age of Humans*.

In this course, you will create a story map that integrates data on social and natural systems around one of our course's learning modules. Your story map will integrate scientific data like the example above but may be focused at either local or global scales. Some story maps are simply a montage of geotagged photographs. Your map will be much more than this. It may have photos for context, but it must be primarily an analytical report that includes writing in pop-up windows and sidebars. It will use visualization of data or models to communicate underlying analysis.

Last Revised on 3/8/2023

## Exams and Other Policies

Both the midterm and final exams are closed book. The mid-term and final exams will include content learned in course readings, lectures, in-class exercises, laboratory sessions, and assignments up until the date of each exam. Except for *documented* illness, emergencies, or official USC conflicts, **no make-up opportunities will be offered for missed exams or labs**, so mark the appropriate dates on your calendars! If you have a legitimate excuse, speak with the instructor as soon as possible to arrange a make-up. Also, note that there is **no credit for late assignments**.

## Grading Breakdown

The following table shows the breakdown of the assignments and their weight in the final grade. The emphasis is on regularly completing several short assignments as well as solid performance on examinations and the final project. Assignments must be submitted as noted, typically on the appropriate Blackboard (Bb) site.

Assessment	Number	Total Points (% of Grade)
City Sustainability Profile Presentation (Submit slides to Lab Bb and deliver presentation during your lab class meeting)	1	14
Laboratory Reports & Story Map Sessions/ <i>Note: Lab reports are on the course schedule at the start of each week they are due. Submit all Lab Reports via the Bb for your laboratory section before the next week's lab session starts.</i>	10	20
Reading Journal Discussion Forum (Submit on Lecture Bb)	1	5
Policy Essay (Submit on Lecture Bb)	1	15
Midterm Exam (In class closed book)	1	11
Final Exam (Closed book at scheduled exam time)	1	17
Final Project: Story Map (Submit URL to Lab Section Bb and give oral report at final lab session.)	1	18
Totals	17	100

## Schedule

Date	Topics	Readings	Deliverables/Due Dates
<b>Module 1   Theories and Key Concepts</b>			
<b>Week 1</b>			
8/21	Introduction to the Course		
8/23	The Urban Sustainability Problematic	Hagen and Pijawka Ch. 1 Wheeler Ch. 1 & 4	
8/25	Competing Definitions of Sustainability and Sustainable Cities	Hagen and Pijawka Ch. 2 & 3 Wheeler Ch. 2  Vos, R. O. 2007. "Defining sustainability: a conceptual orientation." <i>Perspective in Journal of Chemical Technology and Biotechnology</i> 82: 334-339.	
<b>Week 2</b>			
8/28	The Global Context of Sustainable Cities	Drakakis-Smith pp. 1-10 Hagen and Pijawka Ch. 4 Wheeler Ch. 19  Webster et al. 2017 "China's Pursuit: Smart Sustainable Urban Environments" pp. 307-331 in B. Hagen and K. D. Pijawka (eds.) <i>Sustainability for the 21<sup>st</sup> Century</i> (2nd Edition). Dubuque, IA: Kendall Hunt.	
8/30	Is Population Growth the Key?	Drakakis-Smith Ch. 1 & 3 Wheeler Ch. 17	
9/1	Sustainable Cities or Resilient Cities?	Hagen and Pijawka Ch. 8	
<b>Module 2   Urban Footprints</b>			
<b>Week 3</b>			
9/4	Labor Day (No class meeting)		Lab 1 Report (Due before your scheduled lab)

Last Revised on 3/8/2023

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Page 8 of 17



			section to your Lab Blackboard)
9/6	The Urban Footprint	Drakakis-Smith Ch. 4  Seto et al. 2012. "Global Forecasts of Urban Expansion to 2030 and Direct Impacts on Biodiversity and Carbon Pools." <i>Proceedings of the National Academy of Sciences</i> 109, no. 40: 16083-16088.	
9/8	The Urban <i>Ecological</i> Footprint		
<b>Week 4</b>			
<b>Module 3   Environmental Governance, Land Development and Politics</b>			
9/11	Life Cycle Thinking	Hagen and Pijawka Ch. 10	
9/13	Common Pool Resources	Wheeler Ch. 20, 21, & 23	Reading Journal Discussion Forum Due
9/15	The Paradox of the Growth Machine	Wheeler Ch. 18	
<b>Module 3   Perspectives on Consumption</b>			
<b>Week 5</b>			
9/18	The Possibilities of Governing for Urban Sustainability		Lab 2 Report (Due before your scheduled lab section to your Lab Blackboard)
9/20	The Problem of Consumption	Princen, T. 2002. "Consumption and its Externalities: Where Economy Meets Ecology pp. 23-42 in T. Princen, M. Maniates, and K. Conca (eds.) <i>Confronting Consumption</i> . Cambridge, MA: MIT Press	
9/22	Consumption in the Urban Landscape	Wheeler Ch. 11	

Last Revised on 3/8/2023

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<b>Week 6</b>			
9/25	Distancing of Waste in a Global Economy	Drakakis-Smith Ch. 5	Lab 3 Report (Due before your scheduled lab section to your Lab Blackboard)
9/27	Individual Versus Collective Responses to Consumption	Goldstein, N.J. and Cialdini, R.B. 2008. "A Room with a Viewpoint: Using Social Norms to Motivate Conservation in Hotels." <i>Journal of Consumer Research</i> 35: 472-482.  Maniates, M. 2002. "Individualization: Plant a Tree, Buy a Bike, Save the World?" pp. 43-66 in T. Princen, M. Maniates, and K. Conca (eds.) <i>Confronting Consumption</i> . Cambridge, MA: MIT Press.	
9/29	The Nature of the City	Wheeler Ch. 9  Wheeler pp. 312-322  Cronon, W. 1996. "The Trouble with Wilderness: Or, Getting Back to the Wrong Nature." <i>Environmental History</i> 1(1): 7-28.	
<b>Module 4   Reclaiming Urban Nature</b>			
<b>Week 7</b>			
10/2	Restoring Urban Biodiversity	Hagen and Pijawka Ch. 11	City Sustainability Profile Presentation (Deliver during your scheduled lab class)
10/4	Water Resources in Cities	Hagen and Pijawka Ch. 12  Wolch et al. 2014. "Urban Greenspace, Public Health, and Environmental Justice: The Challenge of Making Cities 'Just Green Enough'" <i>Landscape and Urban Planning</i> 125: 234-244.	

Last Revised on 3/8/2023

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Page 10 of 17

10/6	Virtual Tour of LA River (during regular class session at our regular classroom)		
<b>Module 5   Climate Change: Mitigation and Adaptation</b>			
<b>Week 8</b>			
10/9	Mitigating GHG Emissions in Cities	Wheeler Ch. 7 Hagen and Pijawka Ch. 9	Lab 4 Report (Due before your scheduled lab section to your Lab Blackboard)
10/11	Adapting to Climate Change in Cities	Hagen and Pijawaka Ch. 15	
10/13	USC Fall Recess (No class meeting)		
<b>Week 9</b>			
10/16	Midterm Review		
10/18	Midterm Exam		
10/20	Climate Change: ESEM and Agenda Setting		
<b>Spring Break 3/12-3/19</b>			
<b>Module 6   Environmental Justice (EJ): Community-Based Sustainability Science</b>			
<b>Week 10</b>			
10/23	Special Issue: Sustainable Transportation & Smart Growth	Hagen and Pijawka Ch. 13 Wheeler Ch. 10 & 12 Wheeler pp. 291-312	Story Map Proposals (Due before your scheduled lab section to your Lab Blackboard)
10/25	Spatial Analysis for Sustainable Transportation		
10/27	History and EJ in the City	Hagen and Pijawka Ch. 7 Drakakis-Smith Ch. 2 Wheeler pp. 203-204	

Last Revised on 3/8/2023

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<b>Module 7   Greening the Urban Economy and Urban Metabolism</b>			
<b>Week 11</b>			
10/30	Social and Spatial Analysis of Environmental "Bads"	Pulido, L., S. Sidawi, and R. O. Vos 1996. "An Archeology of Environmental Racism in Los Angeles," <i>Urban Geography</i> 17: 419-439.	Lab 5 Report (Due before your scheduled lab section to your Lab Blackboard)  Ungraded (but required) policy essay proposal due, 11:59 p.m.
11/1	Social and Spatial Analysis of Environmental Goods		
11/3	The New Regionalism	Wheeler pp. 198-202  Wheeler Ch. 22	
<b>Week 12</b>			
11/6	Regional Governance		Lab 6 Report (Due before your scheduled lab section to your Lab Blackboard)
11/8	Policy Essay Writing Workshop		Bring Draft Policy Essay to Class
11/10	Veterans Day (No class meeting)		
<b>Week 13</b>			
11/13	Industrial Ecology: The Science & Technology of Sustainability	Wheeler Ch. 8	Policy Essay Due to Lecture Blackboard
11/15	Urban Metabolism Concept and Models	Hagen and Pijawka Ch. 14 Wheeler Ch. 13 & 14	
11/17	Green Jobs and Eco-Industrial Parks	Wheeler Ch. 16	

<b>Module 8   Indicators, Tools, and Sustainable Citizenship</b>			
<b>Week 14</b>			
11/20	Sustainability Indicators: Measurement and Reporting	McAslan, D. 2015. "Assessing Urban Sustainability: Using Indicators to Measure Progress" pp. 235-258 in K. D. Pijawka (ed.) <i>Sustainability for the 21<sup>st</sup> Century</i> (1 <sup>st</sup> Edition). Dubuque, IA: Kendall Hunt.  Wheeler Ch. 6	
11/22	Thanksgiving Holiday (No class meeting)		
11/24	Thanksgiving Holiday (No class meeting)		
<b>Week 15</b>			
11/27	Urban Models: How Can Geodesign Contribute?	Hagen & Pijawka Ch. 5  Guhathakurta, S. 2017. "Examining Urban Sustainability through Urban Models" pp. 111- 126 in B. Hagen and K. D. Pijawka (ed.) <i>Sustainability for the 21<sup>st</sup> Century</i> (1 <sup>st</sup> Edition). Dubuque, IA: Kendall Hunt.	Story Map Final Presentation (Due in person at your lab section meeting and submitted to the Lab Blackboard)
11/29	Sustainable Citizenship and Sustainable Livelihoods	Drakakis-Smith Ch. 5 & 6  Bullen, A. and Whitehead, M. 2005. "Negotiating the Networks of Space, Time and Substance: A Geographical Perspective on the Sustainable Citizen." <i>Citizenship Studies</i> 9: 499-516.	
12/1	Final Exam Review		
	Final Exam (According to the USC Schedule of Classes)		

## Laboratory Topics and Learning Objectives

Week 1 No Labs (Introductory Week)

Week 2 Lab 1: Population Modeling for Manhattan, NY

Week 3 No Lab Meetings (Labor Day Holiday)

Week 4 Lab 2: Mapping the Urban Footprint of Raleigh, NC

Week 5 Lab 3: Mapping Billboards

Week 6 City Sustainability Profile Presentations

Week 7 Lab 4: Modeling Urban Forests Versus Income

Week 8 No Lab Meetings (USC Fall Recess)

Week 9 Story Map Introduction, Team Selection, and Proposal Development

Week 10 Lab 5: Indexing Neighborhood Walkability

Week 11 Lab 6: Mapping Air Toxics

Week 12 No Lab Meetings (Veterans Day)

Week 13 Story Map Working Session

Week 14 No Lab Meetings (Thanksgiving Holiday)

Week 15 Story Map Final Presentations

## Laboratory Protocol

### *Accessing Software for the Labs*

Software to accomplish labs in our course will be provided via the Spatial Sciences Institute (SSI) server and from other cloud-based internet services. The SSI server and our other cloud-based software can be accessed from any standard desktop or laptop computer with a standard web browser and an internet connection. That said, it is not advisable to try to work from a phone or tablet computer. **If you have a laptop computer, please bring it along to the lab sessions. If you do not own a laptop computer, please borrow one from the Leavey Library.**

### *Course Content Labs*

Some lab sessions are directly linked to the course lecture content (see titles above). After these lab sessions, you will work on self-guided work tasks using specialized geographic analysis tools and one or more geospatial datasets or computer modeling tools. Each of these 1-hour and 50-minute “content” lab sessions will provide a brief introduction to the lab, including when appropriate, demonstration and help with some key steps with the software. Following each content lab, the next week’s lab session will also include a brief discussion of how the lab relates to key concepts of sustainable cities covered in the readings and lectures, and how these tasks might have been varied and/or enhanced if performed by professionals in a real-world setting.

If time remains in each lab session, students may choose to get started with the lab and ask questions as they come up. However, some, or even much of the lab work is expected to be

Last Revised on 3/8/2023

conducted independently of the lab session. If you have work left after the lab session, you are advised to start early on it, so you have time to visit the instructor or a lab co-instructor in office hours if you run into difficulties. After completing the computer work, you will write a short lab report to submit to your lab co-instructor before the next lab session (see the specific deadline posted on the lab Blackboard submission link). It should take about 30-minutes to write your lab report. Each of the 6 content lab reports are worth 2 points in the course.

### ***City Sustainability Profile Labs***

During the week of the lab devoted to the city sustainability profile, your team will deliver an oral presentation with an accompanying slide deck. The lab credit for the city sustainability profiles is included in 14 points for the project itself rather than in the points for lab reports.

### ***Story Map Labs***

In the first of the lab sessions devoted to the story map, you will get an introduction to the story map process and software, form a team with other classmates, and prepare a story map proposal to submit to your instructor at the end of the week. After this, to create the story map, you will work with your team, both inside and outside of the lab session time, using datasets and geospatial software to complete components of your story map. This will include connecting with data, analyzing data, and making maps.

For the sessions marked “Story Map Working Session” above, each story map team will bring your work to date to class to show your classmates and your lab co-instructor. The lab co-instructor will review your progress. Your lab co-instructor and classmates will also offer tips and tricks to overcome challenges and improve your story map. At the final lab session, your team will give a presentation of your story map. The story map proposal will be graded (for 2 up to 2 points) and students will receive 2 points credit/no credit for participating in the story map working sessions. The oral presentation of the story map at the final lab session will be graded for each student for 2 points.

## **Statement on Academic Conduct and Support Systems**

### ***Academic Integrity***

The University of Southern California is a learning community committed to developing successful scholars and researchers dedicated to the pursuit of knowledge and the dissemination of ideas. Academic misconduct, which includes any act of dishonesty in the production or submission of academic work, comprises the integrity of the person who commits the act and can impugn the perceived integrity of the entire university community. It stands in opposition to the university’s mission to research, educate, and contribute productively to our community and the world.

All students are expected to submit assignments that represent their own original work, and that have been prepared specifically for the course or section for which they have been

Last Revised on 3/8/2023

submitted. You may not submit work written by others or “recycle” work prepared for other courses without obtaining written permission from the instructor(s).

Other violations of academic integrity include, but are not limited to, cheating, plagiarism, fabrication (e.g., falsifying data), collusion, knowingly assisting others in acts of academic dishonesty, and any act that gains or is intended to gain an unfair academic advantage.

The impact of academic dishonesty is far-reaching and is considered a serious offense against the university. All incidences of academic misconduct will be reported to the Office of Academic Integrity and could result in outcomes such as failure on the assignment, failure in the course, suspension, or even expulsion from the university.

For more information about academic integrity see [the student handbook](#) or the [Office of Academic Integrity’s website](#), and university policies on [Research and Scholarship Misconduct](#).

Please ask your instructor if you are unsure what constitutes unauthorized assistance on an exam or assignment, or what information requires citation and/or attribution.

### **Students and Disability Accommodations:**

USC welcomes students with disabilities into all of the University’s educational programs. The Office of Student Accessibility Services (OSAS) is responsible for the determination of appropriate accommodations for students who encounter disability-related barriers. Once a student has completed the OSAS process (registration, initial appointment, and submitted documentation) and accommodations are determined to be reasonable and appropriate, a Letter of Accommodation (LOA) will be available to generate for each course. The LOA must be given to each course instructor by the student and followed up with a discussion. This should be done as early in the semester as possible as accommodations are not retroactive. More information can be found at [osas.usc.edu](https://osas.usc.edu). You may contact OSAS at (213) 740-0776 or via email at [osasfrontdesk@usc.edu](mailto:osasfrontdesk@usc.edu).

### **Support Systems:**

*[Counseling and Mental Health](#) - (213) 740-9355 – 24/7 on call*

Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention.

*[988 Suicide and Crisis Lifeline](#) - 988 for both calls and text messages – 24/7 on call*

The 988 Suicide and Crisis Lifeline (formerly known as the National Suicide Prevention Lifeline) provides free and confidential emotional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week, across the United States. The Lifeline is comprised of a national network of over 200 local crisis centers, combining custom local care and resources with national standards and best practices. The new, shorter phone number makes it easier for people to remember and access mental health crisis services (though the previous 1 (800) 273-8255 number will continue to function indefinitely) and represents a continued commitment to those in crisis.

Last Revised on 3/8/2023



[Relationship and Sexual Violence Prevention Services \(RSVP\)](#) - (213) 740-9355(WELL) – 24/7 on call

Free and confidential therapy services, workshops, and training for situations related to gender- and power-based harm (including sexual assault, intimate partner violence, and stalking).

[Office for Equity, Equal Opportunity, and Title IX \(EEO-TIX\)](#) - (213) 740-5086

Information about how to get help or help someone affected by harassment or discrimination, rights of protected classes, reporting options, and additional resources for students, faculty, staff, visitors, and applicants.

[Reporting Incidents of Bias or Harassment](#) - (213) 740-5086 or (213) 821-8298

Avenue to report incidents of bias, hate crimes, and microaggressions to the Office for Equity, Equal Opportunity, and Title for appropriate investigation, supportive measures, and response.

[The Office of Student Accessibility Services \(OSAS\)](#) - (213) 740-0776

OSAS ensures equal access for students with disabilities through providing academic accommodations and auxiliary aids in accordance with federal laws and university policy.

[USC Campus Support and Intervention](#) - (213) 740-0411

Assists students and families in resolving complex personal, financial, and academic issues adversely affecting their success as a student.

[Diversity, Equity and Inclusion](#) - (213) 740-2101

Information on events, programs and training, the Provost's Diversity and Inclusion Council, Diversity Liaisons for each academic school, chronology, participation, and various resources for students.

[USC Emergency](#) - UPC: (213) 740-4321, HSC: (323) 442-1000 – 24/7 on call

Emergency assistance and avenue to report a crime. Latest updates regarding safety, including ways in which instruction will be continued if an officially declared emergency makes travel to campus infeasible.

[USC Department of Public Safety](#) - UPC: (213) 740-6000, HSC: (323) 442-1200 – 24/7 on call

Non-emergency assistance or information.

[Office of the Ombuds](#) - (213) 821-9556 (UPC) / (323-442-0382 (HSC)

A safe and confidential place to share your USC-related issues with a University Ombuds who will work with you to explore options or paths to manage your concern.

[Occupational Therapy Faculty Practice](#) - (323) 442-2850 or [otfp@med.usc.edu](mailto:otfp@med.usc.edu)

Confidential Lifestyle Redesign services for USC students to support health promoting habits and routines that enhance quality of life and academic performance.

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Page 17 of 17