

### SSCI 301L (35646R), Maps and Spatial Reasoning

Dana and David Dornsife College of Letters, Arts and Sciences *Spatial Sciences Institute* 

Syllabus

Units: 4

Term: Spring 2024 Lecture: Tuesdays and Thursdays, 2:00-3:20 p.m. PT Labs: Tuesdays, 4:00-5:50 p.m., and Thursdays, 12:00-1:50 p.m.

Locations: DMC 101 (Lecture), LVL 17 (35647RLab), ZHS 360 (35650RLab)

Instructor: Bita Minaravesh, PhD Office: AHF B55D Regular Office Hours: Mondays and Thursdays, 1:00-2:00 p.m. Contact Info: <u>minarave@usc.edu</u>

Lab Instructor: TBD Office: AHF B57A Office Hours: TBD Contact Info: TBD

Library Help: Andy Rutkowski Office: LIPA B40-A Office Hours: Thursdays 10 a.m.-12 p.m. PT or by appointment Contact Info: arutkows@usc.edu

IT Help: Myron Medalla Office: AHF B56B Office: By appointment via email Contact Info: spatial support@usc.edu, 213-740-4415

# **Course Description**

Maps have long played a role in the production and use of geographic information. They support many different kinds and levels of spatial reasoning, from simple queries (route finding, proximity analysis) to more advanced forms of spatial analysis and modeling. An explosion in geographic information technologies over the past two decades has enabled the development of quick visualization tools such as Google Maps, sophisticated geographic information systems (GIS) such as ArcGIS and TerrSet, and many kinds of GPS-enabled sensors. Users can be found across society: social workers use GIS to track where clients live and where more social services are needed, urban planners use GIS to analyze the transformation of city spaces, landscape architects use GIS to design and track the status of their individual project sites, anthropologists use GIS to map the changing cultural patterns of a neighborhood, historians use GIS to track how surface and groundwater flows interact with human-environment systems, and emergency responders use GIS to track where earthquake or hurricane survivors need assistance – to name a few.

Taken as a whole, this course provides a broad understanding for later work with geographic information, regardless of background and/or academic interests. It introduces the geographic information technologies and spatial skills needed to map, model, and predict how physical and social phenomena develop and change. In these ways, the spatial sciences can significantly affect the way research is conducted across a broad swath of disciplines, profoundly impact the way we understand the world, and help us to prepare plans and designs that will dramatically improve the quality of life for those whose life experiences and prospects are shaped by spatial processes.

This course is designed to serve several different student audiences given its role as a required course in the B.S. degrees in Geodesign, Global Geodesign, Human Security and Intelligence, and the minors in GIS and Sustainability Science, Human Security and Geospatial Intelligence, and Spatial Sciences as well as students in engineering, health, the natural and social sciences, and the humanities with interests in how things vary and evolve over space and time. Each student is encouraged to utilize the laboratory experience to explore geospatial resources and computational techniques for running basic spatial analyses and data visualizations, with their own academic and professional goals in mind.

### Learning Objectives

On completion of this course, students should be able to:

- Describe the main types of spatial data, methods for their creation, and relevant factors for choosing amongst them;
- Describe the main types of maps, issues pertaining to geographic information and the creation of maps;
- Explain how modern geographic analysis and visualization tools can be used across a variety of disciplines;

- Apply modern mapping and GIS technologies to problem solving within diverse fields of study;
- Explain basic spatial analysis and modeling methodologies and choose appropriate methods for answering various spatial questions; and
- Create quantitative and qualitative maps that communicate the products of spatial data analysis and modeling.

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 (<u>titleix@usc.edu</u> 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, 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.

### **Course Structure**

This is a four-credit course comprised of lectures (two per week) and lab (one per week). The lecture sessions will discuss various aspects of cartography, spatial reasoning, and the approaches and accompanying computational systems used to investigate these processes. The weekly lab meetings are designed to introduce you to the tools of scientific inquiry and to give you practical experience implementing them within the framework of the scientific method. The

lecture and lab sessions complement each other to provide you with sound theoretical reasoning and the computational skills to investigate various physical and/or social processes. It is required that you register for both the lecture and one laboratory session for this course. Course materials and assignments will be posted on the course Blackboard website. Your assignments will be graded and returned via Blackboard. As a registered student you will find this course available for you to access at 10 a.m. PT on the first day of classes.

## **Technological and Communication Requirements**

ArcGIS Pro and ArcGIS Online are provided virtually via the SSI Server (i.e., a virtual machine); hence, students do not need to install it on their own computer. Instead, every student must have the following technology requirements:

- A computer with a fast internet connection
- A functional webcam and a microphone
- An up-to-date-web browser to access the SSI server

If a student does not have access to any of these, please speak with the instructor at the start of the semester. And see the USC ITS Student Toolkit here: <u>https://keepteaching.usc.edu/students/student-toolkit/</u>

- SSI Server and Tech Support This course utilizes the SSI Server, which is a virtual desktop that allows access to different types of professional software. If students are unable to connect to the server or experience technical issues, they should send an email (via their USC account) to SSI Tech Support at <u>spatial\_support@usc.edu</u>, making sure to copy (cc) the instructor and lab assistant on the email. Assignment specific questions should be directed to the instructor or lab assistant.
- *Communications* All materials to be handed in will be submitted via Blackboard. It is each student's responsibility to stay informed about what is going on in our course. In addition to email about time-sensitive topics, any important announcements will be posted on the Announcement page in Blackboard.

Be sure to check these each time you log onto Blackboard. I will send via email through Blackboard any notices that are time sensitive. Please be sure that you read as soon as possible all email sent from Blackboard or from me. Do not ignore course email until the day before assignments are due. Also, double check to be sure that email sent from the USC blackboard account does not go into your junk mail!

While I am usually on-line all day and will probably respond to emails from students very quickly, I will endeavor to respond to all email within 24 hours of receipt, aiming for no more than 72 hours delay. In the rare case when I expect to be off-line for more than 72 hours, I will post an announcement on the Blackboard site.

### **Required Readings and Supplementary Materials**

The required textbook for this course is:

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• Kimerling, A. Jon, Aileen R. Buckley, Phillip C. Muehrcke, and Juliana O. Muehrcke. 2016. *Map Use: Reading, Analysis, Interpretation*, 8th Ed., Redlands, CA: Esri Press.

Supplementary readings will be assigned from various sources including but not limited to:

- Basiri, A., Haklay, M., Foody, G. & Mooney P. 2019. Crowdsourced geospatial data quality: challenges and future directions. *International Journal of Geographical Information Science*, 33:8, 1588-1593
- Bebbington, A. J., Bebbington, D. H., Sauls, L. A., Rogan, J., Agrawal, S., Gamboa, C., Imhof, A., Johnson, K., Rosa, H., Royo, A., Toumbourou, T., & Verdum, R. 2018. Resource extraction and infrastructure threaten forest cover and community rights. *Proceedings* of the National Academy of Sciences, 115(52), 13164–13173.
- Biehl, A., Ermagun, A., Stathopoulos, A. 2018. Community mobility MAUP-ing: A sociospatial investigation of bikeshare demand in Chicago. *Journal of Transport Geography*, 66, 80-90.
- Bolstad, P., Manson, S. 2022. *GIS fundamentals: A first text on geographic information systems* (7th ed.). XanEdu (Ch. 2 and 5).
- Bruckner, M. 2012. *The Geographic Revolution in Early America: Maps, Literacy, and National Identity.* The University of North Carolina Press.
- Cetl, Vlado, Tomáž Kliment, and Tomislav Jogen. 2017. A comparison of address geocoding techniques: Case study of the City of Zagreb, Croatia. *Survey Review*, 50, 359.
- Cook, I. 2004. Follow the Thing: Papaya. *Antipode*, 36: 642-664.
- Delmelle, E.M., Desjardins, M.R., Jung, P., Owusu, C., Lan, Y., Hohl, A., Dony, C. 2022. Uncertainty in geospatial health: challenges and opportunities ahead. *Annals of Epidemiology*, 65, 15-30.
- Havinga, I., Bogaart, P. W., Hein, L., & Tuia, D. 2020. Defining and spatially modelling cultural ecosystem services using crowdsourced data. *Ecosystem Services*, 43.
- Hogdson, J.C., Baylis, S.M., Mott, R., Herrod, A., Clarke, R.H. 2016. Precision wildlife monitoring using unmanned aerial vehicles. *Scientific Reports*, 6, 22574.
- Hodza, P. 2014. Appreciative GIS and strength-based community change. *Transactions in GIS*, 18(2), 270-285.
- Hubbard, P., Kitchin, R., Bartley, B., Fuller, D. 2002. *Thinking geographically: Space, theory and contemporary human geography*. Continuum (Ch. 1).
- Kratimenos, P. 2022. North isn't necessarily up: map projections, the politics of cartography and their relevance to archaeology. *Archaeology International*, 25(1), 78-88.
- Lee, J.-G., Kang M. 2015. Geospatial big data: Challenges and opportunities. *Big Data Research*, 2(2), 74-81.
- Logan, J.R. 2012. Making a place for space: Spatial thinking in social science. *Annual Review in Sociology*, 38, 507-524.
- Monmonier, M. S. 2018. *How to lie with maps* (Third edition.). The University of Chicago Press.
- Riva, F., Nielsen, S.E. 2020. Six key steps for functional landscape analyses of habitat change. *Landscape Ecol* 35, 1495–1504.
- Schuurman, N. 2004. GIS: A Short Introduction. Blackwell (Ch. 1).

- Wilson, M.W. 2017. *New lines: Critical GIS and the trouble of the map*. University of Minnesota Press (Ch. 1).
- Zeiler, M., Murphy, J. 2010. *Modeling our world: The Esri guide to geodatabase concepts*. Esri Press.

## **Description and Valuation of Assessments**

Your grade in this class will be determined on the basis of several different assessments:

**Laboratory Assignments** (40%): This course includes a laboratory meeting each week to develop technical competency with geospatial software platforms and analytic tools. Lab assignments are linked to the lectures and class discussions, but do not duplicate the lecture experience. Students must register for one lab session in addition to registering for the class itself. There will be a total of ten laboratory reports due over the course of the semester.

**Homework Assignments** (20%): Over the course of the semester you will complete five at-home assignments independent of the lab activities. These assignments will give you opportunities to independently practice spatial thinking. You will have a week to complete these assignments.

**Quizzes** (10%): Throughout the semester there will be five unannounced in-class quizzes to reinforce the content. There will be no make up work for unexcused missed classes.

**Midterm Exam** (10%): The mid-term exam will consist of short answer questions. Students are expected to take the exam at the indicated time in class.

**Final Exam** (20%): The final exam will consist of short answer questions. Students must be present during the final exam period.

# Assignment Submission Policy

Unless otherwise noted, assignments must be submitted via Blackboard by the due dates specified in the Course Schedule below and on the assignment instructions.

Strict penalties apply for late assignments as follows:

- All assignments will be penalized 2 points up to seven days late. No points will be given for submissions more than seven days late.
- Additionally, no written work will be accepted for grading after 5 p.m. PT on the last day of classes.

### Grading Breakdown

Assessment	Number	Points Each	Total Points
Laboratory Assignments	10	4	40
Midterm Exams	1	10	10
In-Class Assignments	5	2	10
Homework Assignments	5	4	20
Final Exam	1	20	20
Total	14	-	100

## **Grading Scale**

Assignments in this and other SSCI courses, are graded on the letter grade scale where A is exemplary, B is very good, C is satisfactory, D is unsatisfactory, and F needs improvement. The grading scale follows:

А	> 93 points	B-	80-82 points	D+	67-69 points
A-	90-92 points	C+	77-79 points	D	63-66 points
B+	87-89 points	С	73-76 points	D-	60-62 points
В	83-86 points	C-	70-72 points	F	<60 points

# Schedule

#### Modules

1	Maps and Geographic Literacy
2	Geodata
3	Georeferencing & Geocoding
4	Geo-enrichment & Knowledge Discovery
5	Applications

Date	Topics	Readings	Deliverables/Due Dates and Times
Week 1			No Labs
1/9	Why Maps?		
1/11		Kimerling et al. (2016,	
		Introduction)	
	Nuts and Bolts	Schuurman (2004, Ch. 1)	
Week 2		Kimerling et al. (2016, Ch. 6)	No Labs
1/16	Cartography 1		
1/18	Cartography 2	Kimerling et al. (2016, Ch 7)	
Week 3		Hubbard et al. (2002, Ch. 1)	Lab Report 1 Due 11:59 p.m. the night
1/23		Logan (2012)	before your next lab meeting.
	Thinking Spatially	Cook (2004)	
1/25	The Lay of the Land	Kimerling et. al (2016, Ch. 1)	HW 1 Due 1/25, 11:59 p.m.
Week 4		Kimerling et al. (2016, Ch. 2)	Lab Report 2 Due 11:59 p.m. the night
1/30	Scale	Biehl et al. (2018)	before your next lab meeting.
2/1		Kimerling et al. (2016 Ch. 5)	
	Turning Space into Place	Brückner (Ch 3., 2006)	
Week 5		Bolstad and Manson (2022, Ch. 2)	Lab Report 3 Due 11:59 p.m. the night
2/6	Spatial Data Models		before your next lab meeting.
2/8			
	Librarian Visit		HW 2 Due 2/8, 11:59 p.m.

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Week 6		Zeiler & Murphy (2010)	No labs.
2/13	Organizing Data		
2/15	Data Quality and Privacy Concerns	Kimerling et al. (2016, Ch. 11)	
Week 7	Big Data and Real-Time	Lee and Kang (2015)	No labs.
2/20	Data		
2/22	Midterm		
Week 8		Kimerling et al. (2016, Ch. 3)	Lab Report 4 Due 11:59 p.m. the night
2/27	Flat Spheres	Kratimenos (2022)	before your next lab meeting.
2/29	Projected Coordinate Systems	Kimerling et al. (2016, Ch. 4)	
Week 9			Lab Report 5 Due 11:59 p.m. the night
3/5	The Power of Maps	Hodza (2014)	before your next lab meeting.
3/7		Cetl et al. (2017)	
	Geocoding	Delmelle et al. (2022)	
		Spring Recess	
Week 10		Bolstad and Manson (2022,	Lab Report 6 Due 11:59 p.m. the night
3/19	GNSS	Ch. 5)	before your next lab meeting.
3/21		Kimerling et al. (2016, Ch.	
		10)	HW 3 Due 3/21, 11:59 p.m.
	Remote Sensing	Hodgson et al. (2016)	
Week 11	Spatial Analysis 1	Kimerling et al. (2016, Ch.	Lab Report 7 Due 11:59 p.m. the nigh
3/26	(Vector)	15)	before your next lab meeting.
3/28		Kimerling et al. (2016, Ch.	
	Spatial Analysis 2	16 (slope, aspect, curvature,	
	(Raster)	profiles, visibility analysis)	
Week 12			Lab Report 8 Due 11:59 p.m. the nigh
4/2	Constant Manufaction of		
4 · · · ·	Spatial Modeling		before your next lab meeting.
4/4	Applied Modeling and	Riva and Nielson (2020)	before your next lab meeting.
	Applied Modeling and Analysis	Bebbington et al. (2018)	HW 4 Due 4/4, 11:59 p.m.
4/4 Week 13	Applied Modeling and	Bebbington et al. (2018) Havinga et al. (2020)	HW 4 Due 4/4, 11:59 p.m. Lab Report 9 Due 11:59 p.m. the nigh
4/4 Week 13 4/9	Applied Modeling and Analysis Crowdsourcing Spatial Data	Bebbington et al. (2018) Havinga et al. (2020) Basri et al. (2019)	HW 4 Due 4/4, 11:59 p.m.
4/4 Week 13	Applied Modeling and Analysis Crowdsourcing Spatial Data Critical GIS	Bebbington et al. (2018) Havinga et al. (2020) Basri et al. (2019) Wilson (2019)	HW 4 Due 4/4, 11:59 p.m. Lab Report 9 Due 11:59 p.m. the nigh before your next lab meeting.
4/4 Week 13 4/9	Applied Modeling and Analysis Crowdsourcing Spatial Data	Bebbington et al. (2018) Havinga et al. (2020) Basri et al. (2019)	HW 4 Due 4/4, 11:59 p.m. Lab Report 9 Due 11:59 p.m. the nigh before your next lab meeting. Lab Report 10 Due 11:59 p.m. the
4/4 Week 13 4/9 4/11 Week 14 4/16	Applied Modeling and Analysis Crowdsourcing Spatial Data Critical GIS	Bebbington et al. (2018) Havinga et al. (2020) Basri et al. (2019) Wilson (2019)	HW 4 Due 4/4, 11:59 p.m. Lab Report 9 Due 11:59 p.m. the nigh before your next lab meeting.
4/4 Week 13 4/9 4/11 Week 14	Applied Modeling and AnalysisCrowdsourcing Spatial DataCritical GISAPPLICATIONS: EJ/ Social JusticeAPPLICATIONS:	Bebbington et al. (2018) Havinga et al. (2020) Basri et al. (2019) Wilson (2019)	HW 4 Due 4/4, 11:59 p.m. Lab Report 9 Due 11:59 p.m. the nigh before your next lab meeting. Lab Report 10 Due 11:59 p.m. the night before your next lab meeting.
4/4 Week 13 4/9 4/11 Week 14 4/16	Applied Modeling and Analysis Crowdsourcing Spatial Data Critical GIS APPLICATIONS: EJ/ Social Justice	Bebbington et al. (2018) Havinga et al. (2020) Basri et al. (2019) Wilson (2019) Farber et al. (2014)	HW 4 Due 4/4, 11:59 p.m. Lab Report 9 Due 11:59 p.m. the nigh before your next lab meeting. Lab Report 10 Due 11:59 p.m. the
4/4 Week 13 4/9 4/11 Week 14 4/16	Applied Modeling and AnalysisCrowdsourcing Spatial DataCritical GISAPPLICATIONS: EJ/ Social JusticeAPPLICATIONS:	Bebbington et al. (2018) Havinga et al. (2020) Basri et al. (2019) Wilson (2019) Farber et al. (2014)	HW 4 Due 4/4, 11:59 p.m. Lab Report 9 Due 11:59 p.m. the nigh before your next lab meeting. Lab Report 10 Due 11:59 p.m. the night before your next lab meeting.
4/4 Week 13 4/9 4/11 Week 14 4/16	Applied Modeling and AnalysisCrowdsourcing Spatial DataCritical GISAPPLICATIONS: EJ/ Social JusticeAPPLICATIONS: Sustainability/	Bebbington et al. (2018) Havinga et al. (2020) Basri et al. (2019) Wilson (2019) Farber et al. (2014)	HW 4 Due 4/4, 11:59 p.m. Lab Report 9 Due 11:59 p.m. the nigh before your next lab meeting. Lab Report 10 Due 11:59 p.m. the night before your next lab meeting.
4/4 Week 13 4/9 4/11 Week 14 4/16 4/18	Applied Modeling and AnalysisCrowdsourcing Spatial DataCritical GISAPPLICATIONS: EJ/ Social JusticeAPPLICATIONS: Sustainability/	Bebbington et al. (2018) Havinga et al. (2020) Basri et al. (2019) Wilson (2019) Farber et al. (2014) TBD	HW 4 Due 4/4, 11:59 p.m.         Lab Report 9 Due 11:59 p.m. the nigh         before your next lab meeting.         Lab Report 10 Due 11:59 p.m. the         night before your next lab meeting.         HW 5 Due 4/18, 11:59 p.m.
4/4 Week 13 4/9 4/11 Week 14 4/16 4/18 Week 15	Applied Modeling and Analysis Crowdsourcing Spatial Data Critical GIS APPLICATIONS: EJ/ Social Justice APPLICATIONS: Sustainability/ Geodesign	Bebbington et al. (2018) Havinga et al. (2020) Basri et al. (2019) Wilson (2019) Farber et al. (2014) TBD	HW 4 Due 4/4, 11:59 p.m.         Lab Report 9 Due 11:59 p.m. the nigh         before your next lab meeting.         Lab Report 10 Due 11:59 p.m. the         night before your next lab meeting.         HW 5 Due 4/18, 11:59 p.m.

### 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.

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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 submitted. You may not submit work written by others (including AI generated) 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 <u>the student handbook</u> or the <u>Office of</u> <u>Academic Integrity's website</u>, and university policies on <u>Research and Scholarship Misconduct</u>.

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 <u>osas.usc.edu</u>. You may contact OSAS at (213) 740-0776 or via email at <u>osasfrontdesk@usc.edu</u>.

#### 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.

#### <u>988 Suicide and Crisis Lifeline</u> - 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.

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<u>Relationship and Sexual Violence Prevention Services (RSVP)</u> - (213) 740-9355(WELL) – 24/7 on call

Free and confidential therapy services, workshops, and training for situations related to genderand 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.

<u>Reporting Incidents of Bias or Harassment</u> - (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.

<u>USC Emergency</u> - 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.

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

Non-emergency assistance or information.

<u>Office of the Ombuds</u> - (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

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