

Course Syllabus

 Edit

UCLA Luskin School of Public Affairs

Department of Urban and Regional Planning

Urban Planning 254 - Winter 2023

Bicycle and Pedestrian/

Active Transportation Planning

Location: 4320A Public Affairs Building

Mondays, 6:00 pm to 9:00 pm

Mandatory field trip: TBD

Instructor: Julia Campbell, PE, LEED AP

Contact info: juliarcampbell@gmail.com

Office Hours: By appointment

Course Description

Active transportation planning is the study of and design for walking, bicycling, and rolling in the built environment. Active transportation trips are typically short, up to one-half and three miles for walking and bicycling, respectively, and may function as short trips independently or to connect to transit for longer distances. Active transportation may include electric assist bicycles and scooters but does not include purely motorized mobility devices. This is an introductory course that does not require prior knowledge of active transportation but having knowledge of the built environment, including the history of land use and transportation infrastructure in Los Angeles will be helpful. This course will focus on the state of the practice in Los Angeles County while referencing national best practices and research.

Course Requirements

There are three parts to this course:

1. Lectures and class discussion informed by readings, and a required field trip.
2. Two written assignments informed by the readings and your own research.
3. Oral examinations for the midterm and final, presented in groups.

Lectures

The academic calendar instruction for Winter 2023 runs from January 9th to March 17th. Class will NOT be held on January 9th due to TRB, January 16th due to MLK Day, and February 20th due to President's Day. I will plan to reschedule one of the canceled lectures for a total of 8 lectures. Your participation in class will be part of your grade, combined with attendance of the field trip.

Field Trip

The course will include an all-day field trip to Santa Monica and Downtown Los Angeles. This is an important element of the class where you will see and experience infrastructure first-hand, as well as meet practitioners. If you cannot attend the field trip you will have the option of completing a write up of a self-guided tour of the field trip route.

Written Assignments

There will be two written assignments for this class ,with two weeks to complete each one. These are not research papers but instead, more like policy briefs expressing a succinct position with clear research backing. In addition to class readings, you should use projects, plans, and policies in the Los Angeles transportation system as well as any state or national policies or examples as applicable in your writing. International examples may be used as guidance to fill in topics that U.S. policy does not address. Briefs that exceed the page limit or are too short to fully address the prompt and to make a sound argument will be graded accordingly.

Oral Midterm and Final Examinations

Planners must regularly present project updates in public settings. The oral exams are intended to mimic the experience a planner can expect in presenting to the public, or an elected body such as City Council or a Board of Directors. These exams are intended to encourage you to absorb the content of the class and to help you come to your own understanding of the course material.

The midterm examination will take place in groups and is intended to help you understand the basics of active transportation infrastructure. You will act as an audience member, playing a member of the public, when your group is not presenting. The specific assignment will be posted at least one week prior to the midterm and will be a presentation of basic bicycle and pedestrian infrastructure types.

The final examination will take place in groups during the regular lecture time of finals week. You will need to understand both an infrastructure project and the policies behind it as you present a persuasive argument to a mock elected body. You will also respond to questions to fully satisfy your audience's understanding of your justification. You will be graded on both the content and effectiveness of your presentation and responses, as well as your ability to appropriately support your team. Prompts will be provided during the last week of class.

Additional assignments

If you need to submit one or both of the written assignments late, you may complete an additional, 1-page analysis paper to make up for 1/3 of a letter grade on each written assignment (a late penalty).

Students who miss the field trip must complete a written assignment to replace their attendance and participation. The field trip replacement write-up should document your self-guided tour of the field trip following the itinerary. You should comment on the difference in similar infrastructure between Santa Monica and DTLA, any revelations or commentary you have from seeing the infrastructure in person, and elements of the infrastructure that you can recognize as coming from best practices and standards we have reviewed in the class. Please include 4-10 photos in an appendix from your self-guided tour.

Academic honesty

Academic policy at UCLA regarding plagiarism: the sources of all ideas, text, pictures, or graphics that are not your own must be fully cited. All passages copied from other sources must be in quotation marks with the source cited. You cannot submit materials written by other students. Clearly understand UCLA's academic integrity policies: <http://www.studentgroups.ucla.edu/dos/students/integrity/> (<http://www.studentgroups.ucla.edu/dos/students/integrity/>) . Group study is encouraged, just remember to cite and don't plagiarize.

Grading

Course grades will be based on the following:

Written Assignments (2)	30 %
Oral Midterm Examination	20 %
Oral Final Examination	30 %
Class Participation (including field trip)	20 %

Late papers will be accepted but a late grade penalty of 1/3 grade (an A becomes an A-, a B+ becomes a B, and so on) will be applied to any papers turned in after the due date. The late penalty for assignments can be waived only with a written note from a medical professional indicating that you were unable to work on your assignment in the week prior to the due date.

Class Lecture Topics and Reading

Lecture 1 Overview of active transportation planning

Why should we care about this subject? How does active transportation fit into the practice of transportation planning? Who are active transportation users? How did the practice get here?

Climate

- [LA's Green New Deal: Sustainable City pLAN 2019](https://plan.lamayor.org/sites/default/files/pLAN_2019_final.pdf) ↗
- [Our County: Los Angeles Countywide Sustainability Plan 2019](https://ourcountyla.lacounty.gov/wp-content/uploads/2019/07/OurCounty-Final-Plan.pdf) ↗
- California Air Resources Board 2018. [Progress Report: California Sustainable Communities and Climate Protection Act](https://ww2.arb.ca.gov/sites/default/files/2018-11/Final2018Report_SB150_112618_01_ExecutiveSummary.pdf) ↗ (Executive Summary)

Economy

- Dunne, James 2019. CBC News: [Love them or hate them, research offers financial case for big city bike lanes](https://www.cbc.ca/news/business/biking-lanes-business-health-1.5165954) ↗
- Schiller, Ben 2015. Fast Company: [How Copenhagen Became A Cycling Paradise By Considering The Full Cost Of Cars](https://www.fastcompany.com/3046345/how-copenhagen-became-a-cycling-paradise-by-considering-the-full-cost-of-cars) ↗
- McCormick, Cullen 2012. NACTO/ UCLA: [York Boulevard: The Economics of a Road Diet](https://nacto.org/docs/usdg/yorkblvd_mccormick.pdf) ↗

Public Health

- Kimbel-Sannit, Arren et al, Sept 16, 2019. LA Times: [Pedestrians die every 90 minutes](https://www.latimes.com/world-nation/story/2019-09-15/pedestrian-deaths-are-on-the-rise) ↗
- Angie Schmitt and Yolanda Davis-Overstreet Sept 2, 2021. LA Times: Op-Ed: [People of color are dying from traffic violence at a much higher rate. Here's why.](https://www.latimes.com/opinion/story/2021-09-02/schmitt-davis-overstreet-pedestrian-deaths) ↗
- Bliss, Laura 2019. CityLab: [Protected bike lanes are safer for drivers too](https://www.citylab.com/transportation/2019/06/protected-bike-lanes-safe-street-design-bicycle-road-safety/590722/) ↗
- Kim, Dohyung 2019. International Journal of Urban Sciences: [Transportation contributing factors to asthma morbidity: the case of Los Angeles County.](http://dx.doi.org/10.1080/12265934.2018.1500493) ↗
- Rahman, T. et al 2011. Mount Sinai journal of medicine, New York, 2011; 78(1): 49-57. [Contributions of built environment to childhood obesity.](http://www.ncbi.nlm.nih.gov/pubmed/21259262) ↗

Supplemental Reading

- [Forester, John](http://www.johnforester.com/) ↗
- California State Transportation Agency, 2021: [Climate Action Plan for Transportation Infrastructure](https://calsta.ca.gov/-/media/calsta-media/documents/capti-july-2021-a11y.pdf) ↗
- California Air Resources Board, 2021: [California Greenhouse Gas Emissions for 2000 to 2019](https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000_2019/ghg_inventory_trends_00-19.pdf) ↗

Lecture 2 Walking and bicycling design

Infrastructure for all ages and abilities. Basics of design. Why don't more people walk, bike, and roll more often?

Why is separated, dedicated walking and biking infrastructure important?

- Geller, Roger 2009. Portland Office of Transportation: [Four Types of Cyclists](https://www.portlandoregon.gov/transportation/44597?a=237507) ↗
- FHWA 2015: [U.S Department of Transportation Pedestrian and Bicyclist Road Safety Assessments - Summary Report](https://www.fhwa.dot.gov/environment/bicycle_pedestrian/resources/assessments/assessments.pdf) ↗

Design Guidance

- [NACTO Urban Street Design Guide](https://nacto.org/publication/urban-street-design-guide/) ↗
- [NACTO Urban Bikeway Design Guide](https://nacto.org/publication/urban-bikeway-design-guide/) ↗
- [NACTO Designing for All Ages and Abilities](https://nacto.org/publication/urban-bikeway-design-guide/designing-ages-abilities-new/) ↗

- AASHTO, 2012: [Guide for the Development of Bicycle Facilities](https://nacto.org/wp-content/uploads/2015/04/AASHTO_Bicycle-Facilities-Guide_2012-toc.pdf) [↗](https://nacto.org/wp-content/uploads/2015/04/AASHTO_Bicycle-Facilities-Guide_2012-toc.pdf) [↗](https://nacto.org/wp-content/uploads/2015/04/AASHTO_Bicycle-Facilities-Guide_2012-toc.pdf) (update expected) [↗](https://tooledesign.com/project/update-to-the-aashto-guide-for-the-design-of-bicycle-facilities-2019/) (https://tooledesign.com/project/update-to-the-aashto-guide-for-the-design-of-bicycle-facilities-2019/)
- FHWA 2019: [Bikeway Selection Guide](https://safety.fhwa.dot.gov/ped_bike/tools_solve/docs/fhwasa18077.pdf) [↗](https://safety.fhwa.dot.gov/ped_bike/tools_solve/docs/fhwasa18077.pdf) (https://safety.fhwa.dot.gov/ped_bike/tools_solve/docs/fhwasa18077.pdf)
- FHWA 2015: [SEPARATED BIKE LANE PLANNING AND DESIGN GUIDE](https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/separated_bikelane_pdg/separatedbikelane_pdg.pdf) [↗](https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/separated_bikelane_pdg/separatedbikelane_pdg.pdf) (https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/separated_bikelane_pdg/separatedbikelane_pdg.pdf)
- Caltrans 2021: [CA MUTCD](https://dot.ca.gov/programs/safety-programs/camutcd) [↗](https://dot.ca.gov/programs/safety-programs/camutcd) (https://dot.ca.gov/programs/safety-programs/camutcd)

Supplemental Reading

- Walker, Alissa, May 15, 2019. Curbed LA: ["Walking is LA's Future"](https://la.curbed.com/2019/5/15/18527824/walking-climate-emissions-solutions-los-angeles) [↗](https://la.curbed.com/2019/5/15/18527824/walking-climate-emissions-solutions-los-angeles) (https://la.curbed.com/2019/5/15/18527824/walking-climate-emissions-solutions-los-angeles)
- FHWA 2017: [Bicycle Network Planning & Facility Design Approaches in the Netherlands and the United States](https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/network_planning_design/network_planning_design.pdf) [↗](https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/network_planning_design/network_planning_design.pdf) (https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/network_planning_design/network_planning_design.pdf)
- 8 to 80 Cities [Hub](https://www.880cities.org/resource-hub/) [↗](https://www.880cities.org/resource-hub/) (https://www.880cities.org/resource-hub/)

Lecture 3 Walking and bicycling design continued

Local Plans

- [Los Angeles Mobility Plan 2035](https://ladot.lacity.org/sites/g/files/wph266f/mobilityplanmemo.pdf) [↗](https://ladot.lacity.org/sites/g/files/wph266f/mobilityplanmemo.pdf) (https://ladot.lacity.org/sites/g/files/wph266f/mobilityplanmemo.pdf)
- LA Metro 2016: [Active Transportation Strategic Plan](https://www.dropbox.com/sh/je9ec6ixhub0crx/AAAKs_ENj0ewEHsWlawtzAxa?dl=0) [↗](https://www.dropbox.com/sh/je9ec6ixhub0crx/AAAKs_ENj0ewEHsWlawtzAxa?dl=0) (https://www.dropbox.com/sh/je9ec6ixhub0crx/AAAKs_ENj0ewEHsWlawtzAxa?dl=0)
- LA Metro 2019: [LA River Path Conceptual Design Report](http://media.metro.net/projects_studies/lariverpath/report-lariverpath-2019-09.pdf) [↗](http://media.metro.net/projects_studies/lariverpath/report-lariverpath-2019-09.pdf) (http://media.metro.net/projects_studies/lariverpath/report-lariverpath-2019-09.pdf)

Who are we designing for?

- Dill, Jennifer 2017: [Are millennial women the answer to ending the gender gap in bicycling?](https://jenniferdill.net/2017/03/31/are-millennial-women-the-answer-to-ending-the-gender-gap-in-bicycling/) [↗](https://jenniferdill.net/2017/03/31/are-millennial-women-the-answer-to-ending-the-gender-gap-in-bicycling/) (https://jenniferdill.net/2017/03/31/are-millennial-women-the-answer-to-ending-the-gender-gap-in-bicycling/)
- Dill, Jennifer 2017: [Why do girls' attitudes about bicycling decline as they get older?](https://jenniferdill.net/2017/03/26/why-do-girls-attitudes-about-bicycling-decline-as-they-get-older/) [↗](https://jenniferdill.net/2017/03/26/why-do-girls-attitudes-about-bicycling-decline-as-they-get-older/) (https://jenniferdill.net/2017/03/26/why-do-girls-attitudes-about-bicycling-decline-as-they-get-older/)
- Brown, Charles 2017. ITE Journal: [Fear: A Silent Barrier to Bicycling in Black and Hispanic Communities](https://nacto.org/wp-content/uploads/2017/03/2016_Brown_Fear-A-Silent-Barrier-to-Bicycling-in-Black-and-Hispanic-Communities.pdf) [↗](https://nacto.org/wp-content/uploads/2017/03/2016_Brown_Fear-A-Silent-Barrier-to-Bicycling-in-Black-and-Hispanic-Communities.pdf) (https://nacto.org/wp-content/uploads/2017/03/2016_Brown_Fear-A-Silent-Barrier-to-Bicycling-in-Black-and-Hispanic-Communities.pdf)

Supplemental Reading

- Monsere, Christopher et al 2014. National Institute for Transportation and Communities: Lessons from the Green Lanes: Evaluating Protected Bike Lanes in the U.S. [Executive Summary](https://ppms.trec.pdx.edu/media/project_files/NITC-RR-583_Executive_SummaryProtectedLanes.pdf) [↗](https://ppms.trec.pdx.edu/media/project_files/NITC-RR-583_Executive_SummaryProtectedLanes.pdf) (https://ppms.trec.pdx.edu/media/project_files/NITC-RR-583_Executive_SummaryProtectedLanes.pdf)

Lecture 4 Safety

Vision Zero and Safe Systems Approach

Public health and safety: vehicular vs personal safety

Vulnerable populations and active transportation

Design Guidance

- [Dangerous by Design 2021](https://smartgrowthamerica.org/dangerous-by-design/) [↗](https://smartgrowthamerica.org/dangerous-by-design/) (https://smartgrowthamerica.org/dangerous-by-design/)
- Vision Zero Network 2017: [Vision, Strategies, Action: Guidelines for an Effective Vision Zero Action Plan](https://visionzeronetwork.org/wp-content/uploads/2017/12/VZN_ActionPlan_FINAL.pdf) [↗](https://visionzeronetwork.org/wp-content/uploads/2017/12/VZN_ActionPlan_FINAL.pdf) (https://visionzeronetwork.org/wp-content/uploads/2017/12/VZN_ActionPlan_FINAL.pdf)
- FHWA Safe [Systems Approach Flier](https://safety.fhwa.dot.gov/zerodeaths/docs/FHWA_SafeSystem_Brochure_V9_508_200717.pdf) [↗](https://safety.fhwa.dot.gov/zerodeaths/docs/FHWA_SafeSystem_Brochure_V9_508_200717.pdf) (https://safety.fhwa.dot.gov/zerodeaths/docs/FHWA_SafeSystem_Brochure_V9_508_200717.pdf)
- FHWA [Road Diet Information Guide](https://safety.fhwa.dot.gov/road_diets/guidance/info_guide/rdig.pdf) [↗](https://safety.fhwa.dot.gov/road_diets/guidance/info_guide/rdig.pdf) (https://safety.fhwa.dot.gov/road_diets/guidance/info_guide/rdig.pdf)
- FHWA 2020: [High-Volume Road Diet Success in Los Angeles](https://safety.fhwa.dot.gov/ped_bike/step/resources/docs/step_casestudies_LADOT_RoadDiet073120.pdf) [↗](https://safety.fhwa.dot.gov/ped_bike/step/resources/docs/step_casestudies_LADOT_RoadDiet073120.pdf) (https://safety.fhwa.dot.gov/ped_bike/step/resources/docs/step_casestudies_LADOT_RoadDiet073120.pdf)
- FHWA 2020: [Los Angeles Makes Strategic Crossing Enhancements Using Detailed Inventory](https://safety.fhwa.dot.gov/ped_bike/step/resources/docs/step_casestudies_LADOT073120.pdf) [↗](https://safety.fhwa.dot.gov/ped_bike/step/resources/docs/step_casestudies_LADOT073120.pdf) (https://safety.fhwa.dot.gov/ped_bike/step/resources/docs/step_casestudies_LADOT073120.pdf)
- NACTO 2020: [City Limits: Setting Safe Speed Limits on Urban Streets](https://nacto.org/safespeeds/) [↗](https://nacto.org/safespeeds/) (https://nacto.org/safespeeds/)

Local Plans

- Los Angeles [Vision Zero Action Plan 2018](https://ladotlivablestreets-cms.org/uploads/d704aa3913e440d5ab4cb91930e902d4.pdf) [and Safety Toolkit](https://ladotlivablestreets.org/content-landing/Vision-Zero-Safety-Toolkit)
- [Mayor Eric Garcetti Executive Order 10: Vision Zero](https://www.lacity.org/sites/g/files/wph1101/ff/garcetti_ed10.pdf)
- LADOT Vision Zero [High Injury Network Map](https://ladotlivablestreets.org/programs/vision-zero/maps)

Supplemental Reading

- FHWA 2022: [Public Roads “Making our Roads Safer through a Safe System approach”](https://highways.dot.gov/sites/fhwa.dot.gov/files/2021-12/PR-WIN22_Book_full_508_revised2.pdf)
- Caltrans 2020: [California Manual for Setting Speed Limits](https://dot.ca.gov/-/media/dot-media/programs/safety-programs/documents/2020-california-manual-for-setting-speed-limits-a11y.pdf)
- NCHRP 2020: [Research Report 966: Posted Speed Limit Setting Procedure and Tool](https://www.trb.org/Publications/Blurbs/182038.aspx)
- Strategic Highway Safety Plan Bicycle and Pedestrian Challenge Area Teams 2021: [Recommendations for California Statewide Guidance High Injury Networks](https://scag.ca.gov/sites/main/files/file-attachments/cal-guidance-hin-090221.pdf?1633549750)
- Singapore NCPC 2003: [CPTED Guidebook](https://rems.ed.gov/docs/Mobile_docs/CPTED-Guidebook.pdf)
- FHWA 2010. [Safety Effectiveness of the HAWK Pedestrian Crossing Treatment](https://www.fhwa.dot.gov/publications/research/safety/10042/10042.pdf)
- Lusk et al., 2013. American Journal of Public Health: [Bicycle Guidelines and Crash Rates on Cycle Tracks in the United States](http://ajph.aphapublications.org/doi/pdf/10.2105/AJPH.2012.301043).
- Teschke et al. 2012. American Journal of Public Health: [Route Infrastructure and the Risk of Injuries to Bicyclists: A Case-Crossover Study](https://www.researchgate.net/publication/232319012_Route_Infrastructure_and_the_Risk_of_Injuries_to_Bicyclists_A_Case-Crossover_Study).

Lecture 5 Connecting to transit and accessibility

First/ Last Mile

Americans with Disabilities Act

Micromobility: skating, scooting, bike share

Built environment at stations and stops

Bike parking

Design Guidance

- [NACTO Transit Street Design Guide](https://nacto.org/publication/transit-street-design-guide/)
- City of Los Angeles 2018: [Ordinance 185480 Bicycle Parking](http://clkrep.lacity.org/online/docs/2012/12-1297-S1_ORD_185480_05-09-2018.pdf)
- LA Metro 2016: [Metro First/ Last Mile Strategic Plan](https://media.metro.net/docs/sustainability_path_design_guidelines.pdf)
- US DOJ 2010: [ADA Standards for Accessible Design](https://www.ada.gov/2010ADASTandards_index.htm), Sections 401-406, 810
- ITDP 2018: [Bike Share Planning Guide](https://www.transformative-mobility.org/assets/publications/The-Bikeshare-Planning-Guide-ITDP-Datei.pdf)
- NACTO 2016: [Bike Share Station Siting Guide](https://www.itdp.org/2018/06/13/the-bike-share-planning-guide-2/)

Local Plans

- LA Metro 2018: Blue Line First/ Last Mile Plan [Executive Summary](http://media.metro.net/projects_studies/toc/images/report_toc_MBLFLM_execsummary.pdf) [and Appendix A](http://media.metro.net/projects_studies/toc/images/report_toc_MBLFLM_appendix_a.pdf)
- LA Metro 2020: [East San Fernando Valley Light Rail Transit First/ Last Mile Plan](http://media.metro.net/2020/ESFVLR-FLM-Plan-Draft-Final-November-2020-ES.pdf)
- LA Planning Department 2016: [Mobility Hubs](http://www.urbandesignla.com/resources/docs/MobilityHubsReadersGuide/hi/MobilityHubsReadersGuide.pdf)
- LA Metro 2019: [Metro Bike Share Business Plan](http://libraryarchives.metro.net/DPGTL/bikeplans/Metro-Bike-Share-Business-Plan-04172018-Final.pdf)
- SCAG 2019: [Bike Share in Los Angeles County](https://scag.ca.gov/sites/main/files/file-attachments/labikeshare_scag.pdf)

Supplemental Reading

- Walker, Alissa, July 2021. Curbed: [Here's How Hard Los Angeles Has Made It to Install a Bus Shelter](https://www.curbed.com/2021/07/bus-shelter-los-angeles-jcdecaux.html) ↗
- Lee, Jeongwoo et al 2017. Journal of Transport and Health: [Potential of Converting Short Car Trips to Active Trips: The Role of The Built Environment in Tour-Based Travel](https://www.sciencedirect.com/science/article/pii/S2214140516302468) ↗
- Kevin J. Krizek and Eric W. Stonebraker Transportation Research Record # 2144 : Bicycling and Transit: A Marriage Unrealized
- Rosenbloom, Sandra. 2007. The National Academies Press: "The Transportation Patterns and Needs of People with Disabilities," White Paper commissioned by the US Institute on Health, National Academy of Sciences in Field, Marilyn J. and Jette, Alan (eds.) [The Future of Disability in America](http://www.ncbi.nlm.nih.gov/books/NBK11420/) ↗
- Fang, Kevin 2018. Transfers: [Faster Than Walking, More Flexible Than Biking: Skateboarding as a Real Mobility Mode](https://transfersmagazine.org/faster-than-walking-more-flexible-than-biking-skateboarding-as-a-real-mobility-mode/) ↗
- Shaheen, Susan & Martin, Elliot 2017: Access: [Unraveling the Modal Impacts of Bikesharing](http://www.accessmagazine.org/fall-2015/unraveling-the-modal-impacts-of-bikesharing/) ↗
- Babagoli, Masih A. et al 2019. Journal of Transport and Health: [Exploring the Health and Spatial Equity Implications of the New York City Bike Share System](http://www.sciencedirect.com/science/article/pii/S2214140518304791) ↗
- Open Mobility Foundation [Overview](https://www.openmobilityfoundation.org/wp-content/uploads/2019/06/OpenMobilityFoundation_Overview.pdf) ↗

Lecture 6 Sharing road space

What is a complete street?

The curb: parking & urban goods movement

Bus vs bike?

Highways

Design Guidance

- LA Department of City Planning: Los Angeles [Complete Street Design Guide](https://planning.lacity.org/odocument/c9596f05-0f3a-4ada-93aa-e70bbde68b0b/Complete_Street_Design_Guide.pdf) ↗
- LA BOE & DOT 2020: [Los Angeles Supplemental Street Design Guide](https://ladot.lacity.org/sites/default/files/documents/supplemental-design-guide-052620-final.pdf) ↗
- LA Metro 2014: [Metro Complete Streets Policy](https://media.metro.net/projects_studies/sustainability/images/policy_completestreets_2014-10.pdf) ↗
- City of Vernon 2017: [Bicycle Master Plan](https://www.cityofvernon.org/home/showpublisheddocument/1308/637635880856030000) ↗
- Caltrans 2018: [Complete Streets Elements Toolbox](https://dot.ca.gov/-/media/dot-media/programs/transportation-planning/documents/f0020348_complete-streets-elements-toolbox-a11y.pdf) ↗
- FHWA 2016: [Incorporating On-Road Bicycling Networks into Resurfacing Projects](https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/resurfacing/resurfacing_workbook.pdf) ↗

Reading

- Macdonald, Elizabeth 2006. Access: [Building a Boulevard](http://www.accessmagazine.org/spring-2006/building-boulevard/) ↗
- Taylor, Brian 1993. Access: [Why California Stopped Building Freeways](http://www.accessmagazine.org/fall-1993/why-california-stopped-building-freeways/) ↗
- Macdonald, Elizabeth 2007. Access: [The Intersection of Trees and Safety](http://www.accessmagazine.org/fall-2007/intersection-trees-safety/) ↗
- WSDOT 2013: [In-Service Evaluation of Major Urban Arterials with Landscaped Medians](https://www.wsdot.wa.gov/research/reports/fullreports/636.3.pdf) ↗
- Harvey, Chester and Aultman-Hall, Lisa 2015. Transportation Research Board: Urban Streetscape Design and Crash Severity #15-2942

Supplemental Reading

- Boarnet, Marlon, et al 2011. Access: [Retrofitting the Suburbs to Increase Walking](http://www.accessmagazine.org/fall-2011/retrofitting-suburbs-increase-walking-2/) ↗
- Metro Bus/ Bike Interface Study ([PPTX](https://media.metro.net/about_us/committees/sfs/images/sfs_presentation_Bike-Bus_Interface_study_2017-0919.pdf) ↗)
- Sisson, Patrick, January 10, 2019. Curbed: ["How your online shopping snarls traffic on city streets"](https://www.curbed.com/2019/1/10/18177399/amazon-delivery-traffic-online-shopping-e-commerce) ↗

- McGreevy, Patrick, May 2017, 2019. LA Times: “[Using California gas tax to reduce traffic lanes? Not how it should be spent, some say](https://www.latimes.com/politics/la-pol-ca-gas-tax-funding-road-diet-projects-20190527-story.html)” ↗

Lecture 7 Education and Encouragement, data collection and Evaluation

Bicycle education programs: Bike Month, Bike to Work Day, & Walktober

Example: Metro Bike Share launch campaign

Data Collection

Guidance

- League of American Bicyclists Cycling Smart Cycling Quick Guide [Videos](https://bikeleague.org/quickguide) ↗
- Metro 2018. BEST [My Guide to Biking in LA](http://media.metro.net/riding_metro/bikes/images/Bike_Class_Curriculum_Guide_Booklet.pdf) ↗ and [Community Rides](https://www.metro.net/riding/go-bike/bike-education-safety-training-community-rides/) ↗
- [SCAG Regional Active Transportation Database](https://atdb.scag.ca.gov/Pages/Home.aspx) ↗
- LADOT 2019: [Walk & Bike Count](https://ladot.lacity.org/sites/default/files/documents/ladot2019walkandbikecount.pdf) ↗

Reading

- Morris, Eric 2017: Access: [Is Travel Really That Bad?](http://www.accessmagazine.org/spring-2017/is-travel-really-that-bad/) ↗
- Schoner, Jessica et al 2018. Journal of Transport and Health: [Bringing Health into Transportation and Land Use Scenario Planning](http://www.sciencedirect.com/science/article/pii/S2214140516304406) ↗
- Russo, Brendan et al 2018. Transfers: [Walking on the Wild Side: Distracted Pedestrians and Traffic Safety](https://transfersmagazine.org/walking-on-the-wild-side-distracted-pedestrians-and-traffic-safety/) ↗
- Buehler, Ralph and Pucher, John 2016. American Journal of Public Health: [Safer Cycling Through Improved Infrastructure](https://www.researchgate.net/profile/John_Pucher/publication/311212084_Safer_Cycling_Through_Improved_Infrastructure/links/5862b5ce08ae329d6201bc06/Cycling-Through-Improved-Infrastructure.pdf) ↗
- Wang, Haizhong et al 2016. [Pacific Northwest Transportation Consortium](https://trid.trb.org/View/www.pactrans.org) ↗: [Bicycle Safety Analysis: Crowdsourcing Bicycle Travel Data to Estimate Risk Exposure and Create Safety Performance Functions](http://hdl.handle.net/1773/43510) ↗
- Gibson, Geoff et al 2017. Transportation Research Board: Motorist-Cyclist Crash Data Needs in U.S. Communities #17-06057

Lecture 8 Equity, Enforcement, Experience





How does an equity lens work?

How does enforcement fit in?

Why does experience matter?

- LADOT 2021: [Changing Lanes a gender equity transportation study](https://ladot.lacity.org/sites/default/files/documents/changing-lanes-report.pdf) ↗
- Caltrans 2020: [Equity Statement](https://dot.ca.gov/-/media/dot-media/documents/about-caltrans/caltrans-equity-stmt-121020-final-a11y.pdf) ↗
- Curry, Melanie, 2020. Streetsblog California: [Caltrans Statement on Equity: What Does it Mean?](https://cal.streetsblog.org/2020/12/23/caltrans-statement-on-equity-what-does-it-mean/) ↗
- Toole Design: [The New E's](https://tooledesign.com/thenewes/) ↗ Letter from Jennifer Toole and Podcasts
- Aevaz, Romic, 2020. Eno Center for Transportation: [Op-Ed: Transportation and the Police: Reconsidering Traffic Enforcement](https://www.enotrans.org/article/op-ed-transportation-and-the-police-reconsidering-traffic-enforcement/) ↗ (Parts 1 and 2)
- LA Times Editorial Board 2021: Editorial: [Trying to cross the street shouldn't be a crime](https://www.latimes.com/opinion/story/2021-09-22/decriminalize-jaywalking) ↗
- Budds, Diana 2019. Curbed: [Why we need to reframe the rules of transportation](https://www.curbed.com/2019/9/16/20860872/street-design-equity-transportation) ↗
- Litman, Todd 2014. [Victoria Transport Policy Institute: Evaluating Transportation Equity](https://nacto.org/wp-content/uploads/2015/07/2014_Litman_Evaluating-Transportation-Equity.pdf) ↗

Course Summary:

Date	Details	Due
Mon Feb 13, 2023	 Midterm (https://bruinlearn.ucla.edu/courses/157717/assignments/1366457)	due by 11:59pm
Sat Mar 4, 2023	 Briefing Paper 1: Memo to elected official regarding corridor outreach (https://bruinlearn.ucla.edu/courses/157717/assignments/1374276)	due by 11:59pm
Mon Mar 20, 2023	 Final (https://bruinlearn.ucla.edu/courses/157717/assignments/1382891)	due by 11:59pm
Fri Mar 24, 2023	 Briefing Paper 2: Safety improvements (https://bruinlearn.ucla.edu/courses/157717/assignments/1380195)	due by 11:59pm