

Complete Streets Class Syllabus

UPP 565

Wednesdays, August 25 – December 1

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This course will introduce students to the process of developing and implementing effective Complete Streets policies. The course will begin with an overview of traditional transportation right-of-way planning methods and will explain how and why Complete Streets policies are being adopted by transportation agencies across the country. The class will consider the needs of a variety of stakeholders—including pedestrians, bicyclists, transit users, motorists, and freight operators—and explore how these needs both converge and conflict.

After completing this course, students will be able to identify essential considerations in successful complete streets planning, evaluate types of pedestrian and bicycle infrastructure for effectiveness, and articulate considerations in balancing the needs of all users of the transportation system.

Grading:

- Attendance and Class Discussion—20%
Students are encouraged to bring examples of materials that exhibit differing perspectives on multi-modal transportation planning. Please note that students who miss more than three classes will receive no points for attendance and discussion. Active participation in all class discussions is required to earn full points.
- Field Trip Participation and Responses—20% (10% Each)
Responses are due by the beginning of each class following the field trip. Responses should demonstrate a critical understanding of concepts presented in class.
- Final Project—60% (20% Group Presentation, 40% Final Product)
Projects can be done either individually or in groups of two. A group project should demonstrate a more extensive final product. Project specifications will be distributed during the October 6 class. A project proposal is due by the beginning of class on October 20.

Academic Integrity:

Plagiarism—intentionally or knowingly representing the words or ideas of another person as one's own without proper acknowledgement—will not be tolerated. UIC's policy regarding academic integrity will be adhered to in dealing with students who plagiarize or cheat. Please review the guidelines on academic integrity, and the consequences of violating it, at http://www.vcsa.uic.edu/MainSite/departments/dean_of_students/Our+Services/Student+Judicial+Affairs.htm.

Special Needs/Disabilities Accommodation:

Please register with the Office of Disability Services at SSB (1200 W. Harrison St. Room 1190), 312-413-2183 or 312-413-012 if you require reasonable accommodations for access to or participation in the course.

August 25: Course Introduction

Readings:

- National Complete Streets Coalition. Website: <http://www.completestreets.org/>
- American Planning Association (2010). Complete Streets: Best Policy and Implementation Practices. Chapter 1.

September 1: Overview of Complete Streets

Readings:

- Weiner, E. (2008). Urban Transportation Planning in the United States: History, Policy, and

- Practice. Selections.
- Gotschi, T., & Mills, K. (2008). Active Transportation for America. Washington, D.C.: Rails-to-Trails Conservancy. Available at: http://www.railstotrails.org/resources/documents/whatwedo/atfa/ATFA_20081020.pdf
- American Planning Association (2010). Complete Streets: Best Policy and Implementation Practices. Chapter 3.
- Jacobs, Allan B. (1995). Great Streets. 2-12.
- New York Department of Transportation (2009). New York City Street Design Manual. Available at: <http://www.nyc.gov/html/dot/html/about/streetdesignmanual.shtml>
- Charlotte Department of Transportation (2007). Urban Street Design Guidelines. Chapters 1-4. Available at: <http://charmeck.org/city/charlotte/Transportation/PlansProjects/Pages/Urban%20Street%20Design%20Guidelines.aspx>
- Caltrans (2010). Caltrans Complete Streets Implementation Action Plan. Website: http://www.dot.ca.gov/hq/tpp/offices/ocp/complete_streets_files/CompleteStreets_IP03-10-10.pdf

September 8: Transportation Planning and Design

Readings:

- Transportation Research Board (2000). Highway Capacity Manual. Selections.
- Federal Highway Administration (2009). Manual on Uniform Traffic Control Devices. Introduction. Available at: <http://mutcd.fhwa.dot.gov/pdfs/2009/mutcd2009edition.pdf>
- Weiner, E. (2008). Urban Transportation Planning in the United States: History, Policy, and Practice. Selections.

September 15: Safety and Behavior

Readings:

- Eyler, A. A., Brownson, R. C., Doescher, M. P., Evenson, K. R., Fesperman, C. E., Litt, J. S., et al. (2008). Policies related to active transport to and from school: a multisite case study. *Health Education Research*, 23(6), 963-975.
- Centers for Disease Control and Prevention. (1996). Neighborhood safety and the prevalence of physical inactivity-selected states. *Morbidity and Mortality Weekly Report*, 48(7), 143-146.
- Schlossberg, M., Greene, J., Phillips, P., Johnson, B., & Parker, B. (2006). School trips: effects of urban form and distance on travel mode. *Journal of the American Planning Association*, 72(3), 337-346.
- Nabors, D., Gibbs, M., Sandt, L., Rocchi, S., Wilson, E., & Lipinski, M. (2007). Pedestrian road safety audit guidelines and prompt lists. Washington, D.C.: Federal Highway Administration.
- Stutts, J. C., & Hunter, W. W. (1999). Injury to pedestrians and bicyclists: An analysis based on hospital emergency department data. McLean, VA: Federal Highway Administration. Available at (html only) <http://www.tfhrc.gov/safety/pedbike/research/99078/99-078.htm>
- Loukaitou-Sideris, A. (2006). Is it safe to walk? Neighborhood safety and security considerations and their effects on walking. *Journal of Planning Literature*, 20(3), 219-232.

September 22: Pedestrian Space

Readings:

- Demerath, L., & Levinger D. (2003). The social qualities of being on foot: A theoretical analysis of pedestrian activity, community, and culture. *City & Community*, 2(3), 217-237.
- Ehrenfeusht, Renia, Loukaitou-Sideis, Anastasia. (2009). Sidewalks: Conflict and Negotiation Over Public Space. 219-275.
- Portland Department of Transportation (1998). Portland Pedestrian Master Plan. Chapter Four. Available at: <http://www.portlandonline.com/shared/cfm/image.cfm?id=90244>
- American Association of State Highway Transportation Officials (2004). Guide for the Planning, Design and Operation of Pedestrian Facilities. Chapters 3-4.

September 29: Pedestrian Field Visit

Readings:

- Jacobs, Allan B. (1995). Great Streets. 269-311.
- Accessible Public Rights of Way: Planning and Designing for Alterations (2007). Available at: <http://www.access-board.gov/prowac/alterations/guide.htm>
- Chicago Department of Transportation (2009). Requirements for Openings, Construction, and Repair in the Public Way. Available at: http://www.cityofchicago.org/content/dam/city/depts/cdot/ADA_ramps/ADA_standards_2009.pdf
- Chicago Municipal Code – Snow Removal. Selections.

Assignment: 2-3 page field visit response

October 6: Bicycle Planning

Readings:

- U.S. Department of Transportation, Federal Highway Administration (2010). Policy Statement on Bicycle and Pedestrian Accommodation Regulations and Recommendations. Available at: http://www.fhwa.dot.gov/environment/bikeped/policy_accom.htm
- Portland Department of Transportation (2010). Portland Bicycle Plan for 2030. 1-30. Available at: <http://www.portlandonline.com/transportation/index.cfm?c=44597&a=289122>
- City of Chicago (2006). Bike 2015 Plan. Executive Summary, Introduction, Chapters 1, 2. Available at: <http://www.Bike2015Plan.org>

Pedestrian Field Visit Assignment Due

October 13: Bicycling: Infrastructure and Emerging Best Practices

Readings:

- Dill, J., & Carr, T. (2003). Bicycle commuting and facilities in major U.S. cities: If you build them, commuters will use them. Transportation Research Record, 1828, 116-123.
- CROW (2007). Design manual for bicycle traffic. Chapter 2, Functional design, 25-38.
- Streetfilms: <http://www.streetfilms.org/cycling-copenhagen-through-north-american-eyes/> and <http://www.streetfilms.org/berkeley-bike-boulevards/>

October 20: Bike Field Visit

Readings:

- Wardman, M., Tight, M., & Page, M. (2007). Factors influencing the propensity to cycle to work. Transportation Research Part A: Policy and Practice, 41(4), 339-350.
- 2010 Chicago Bike Map

1-2 Page(s) Final Project Proposal Due

Assignment: 2-3 page field visit response

October 27: Land Use and Transportation

Readings:

- Aytur, S., Rodríguez, D. A., & Evenson, K. R. (2007). Promoting active community environments through land use and transportation planning. American Journal of Health Promotion, 21(4S), 397-407.
- Aytur, S. A., Rodríguez, D.A. Evenson, K. R., Catellier, D.J., & Rosamond W. D. (2008). The sociodemographics of land use planning: Relationships to physical activity, accessibility, and equity. Health & Place, 14(3), 367-385.
- Librett, J. J., Yore, M. M., & Schmid, T. L. (2003). Local ordinances that promote physical activity: A survey of municipal policies. American Journal of Public Health, 93(9), 1399-1403.

- Forsyth, A., Oakes, J. M., et al. The built environment, walking, and physical activity: Is the environment more important to some people than others? *Transportation Research Part D* 2009; 14:42-49.
- Littman, Todd (2010). Land Use Impact on Transport: How Land Use Factors Affect Travel Behavior. Available at: <http://www.vtpi.org/landtravel.pdf>
- Center for Neighborhood Technology (2010). Pennywise Poundfueish: New Measures of Housing + Transportation Affordability. Available at: <http://www.cnt.org/repository/pwpcf.pdf>

Bicycle Field Visit Assignment Due

November 3: Designing for Complete Streets: Case Studies

Readings:

- Litman, T. (2004). Economic Value of Walkability. Victoria, BC: Victoria Transportation Policy Institute. Available at: <http://www.vtpi.org/walkability.pdf>
- Burden, D., & Lagerwey, P. (1999). Road diets: fixing the big roads. Walkable Communities, Inc.
- City of Chicago (2007). Street and Site Plan Design Standards. Available at: <http://www.cityofchicago.org/content/dam/city/depts/cdot/StreetandSitePlanDesignStandards407.pdf>

November 10: Measuring Complete Streets

Readings:

- Alta Planning, Institute of Traffic Engineers. National Bicycle and Pedestrian Documentation Project. Website: <http://bikepeddocumentation.org/>
- Rafor, N., & Ragland, D. R. (2006). Pedestrian volume modeling for traffic safety and exposure analysis. Transportation Research Board 85th Annual Meeting.
- Dowling, R. G., Reinke, D. B., Flannery, A., Ryus, P., Vandehey, M., Petritsch, T. A., et al. (2008). Multimodal level of service analysis for urban streets. NCHRP Report, 616. Selections.
- Porter, C., Suhrbier, J., & Schwartz, W.L. (1999). Forecasting bicycle and pedestrian travel: State of the practice and research needs. *Transportation Research Record*, 1674, 94-101.
- Cervero, R. (2006). Alternative approaches to modeling the travel-demand impacts of smart growth. *Journal of the American Planning Association*, 72(3), 285-295.

November 17: Funding

Readings:

- Williams Goldhagen, Sarah (2007). American Collapse. *The New Republic*. Available at: <http://www.tnr.com/article/politics/american-collapse>
- Littman, Todd (2004). Whose Roads? Defining Bicyclists' and Pedestrians' Right to Use Public Roadways. <http://www.vtpi.org/whoserd.pdf>
- U.S. Department of Transportation (2005). Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users - A Summary of Highway Provisions. http://www.fhwa.dot.gov/safetealu/safetea-lu_summary.pdf
- T4America (2010). The Road to Reform: Blueprint for a 21st Century Federal Transportation Program. Available at: http://t4america.org/docs/blueprint_full.pdf
- LaHood, Ray (March 15, 2010). My view from atop the table at the National Bike Summit. Fast Lane: The Official Blog of the U.S. Secretary of Education. Website: <http://fastlane.dot.gov/2010/03/index.html>
- U.S. Department of Transportation (2010). United States Department of Transportation Policy Statement on Bicycle and Pedestrian Accommodation Regulations and Recommendations. Available at: http://www.fhwa.dot.gov/environment/bikeped/policy_accom.htm
- U.S. Department of Transportation, Federal Transit Administration. Livable and Sustainable Communities. http://fta.dot.gov/publications/publications_10935.html
- Seattle Department of Transportation. Bridging the Gap. Website: <http://www.cityofseattle.net/transportation/BridgingtheGap.htm>

November 24: Group presentations

December 1: Group presentations