

Spring 2007

Revised 10/10/06

## URP 5711

### Transportation Planning

Meets: Tuesdays and Thursdays, 9:30-10:45

Room: Bellamy 111

Instructor: Jeffrey Brown

Office Hours: Tuesdays and Thursdays, 11-12:30 or  
by appointment

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Urban and Regional Planning 5711 introduces you to the culture, institutions, and practice of transportation planning. During this course, you will learn about the roles of transportation planners and planning analysis in the transportation decision-making process. We will discuss the evolution of the transportation system, including its associated institutions. We will also introduce several analytical techniques used to examine the transportation system and evaluate transportation projects. And, we will explore the roles of institutions and politics in transportation decision-making.

We will examine a number of important topics in transportation planning, including: transportation finance, traffic congestion, public transit, and intercity transportation. Because the course is structured as an introduction to transportation planning, there is no prerequisite for taking this class.

### Course Objectives

By the end of the course, you will understand the roles of planners in transportation policy and planning decision-making. You will learn some of the techniques used by transportation planners to inform policy decisions. You will also learn about the importance of institutions and market forces in transportation policy and planning.

By the end of the course, you will have a better understanding of the central issues in transportation policy and planning, the techniques we use to make policy decisions involving these issues, and the real opportunities and limits for transportation planners to undertake significant policy/ planning change.

## Course Materials

There are **three** required textbooks for this course. The required texts are available at both Bill's Bookstore and the FSU bookstore, and are listed below:

Hanson, Susan and Genevieve Giuliano, editors. 2004. *The Geography of Urban Transportation, Third Edition*. New York and London: Guilford Press.

Downs, Anthony. 2004. *Still Stuck in Traffic: Coping with Peak-Hour Traffic Congestion*. Washington, DC: Brookings Institution.

Dunn, James A. 1998. *Driving Forces: The Automobile, Its Enemies, and the Politics of Mobility*. Washington, DC: Brookings Institution.

Additional reading material will be posted on the class **Blackboard** site, as noted.

## Course Requirements

You are expected to read all the assigned readings prior to attending each class and to participate actively in all class discussions. Failure to participate will negatively affect your course grade. The specific course requirements are listed below.

There are two assignment options in this course. Early in the term, you will need to decide which option you plan to follow and let me know your decision.

### Option 1: Assignments and Term Paper

#### *Assignments*

You must complete **three** of the seven assignments discussed in the assignments handout. Each assignment is worth **16** percent of your course grade. Please see additional details on the handout.

#### *Term Paper*

You are required to complete a term paper in this course. Details are contained in the term paper handout. The term paper (including proposal) is worth **48** percent of your course grade.

#### *Participation*

You are required to be an active participant in all class discussions. Participation counts for **4** percent of the course grade.

## Option 2: Assignments Only

### *Assignments*

You must complete **six** of the seven assignments discussed in the assignments handout. Each assignment is worth **16** percent of your course grade. Please see additional details on the handout.

### *Participation*

You are required to be an active participant in all class discussions. Participation counts for **4** percent of the course grade.

### *Grade Scheme*

96% and above	A
91% - 95.9%	A-
87% - 90.9%	B+
84% - 86.9%	B
80% - 83.9%	B-
76% - 79.9%	C+
73% - 75.9%	C
70% - 72.9%	C-
66% - 69.9%	D+

## Course Policies

### **Fairness**

It is unfair to other students in the class for you to ask for a deadline extension except when justified by extenuating circumstances.

### **Readings**

You are expected to complete the assigned readings prior to attending class. Failure to do so makes it difficult for you to understand the materials presented in the lecture or to fully participate in class discussions.

### **Attendance**

*Attendance* at all class sessions is mandatory. Unexcused tardiness or early departure from class will be recorded as absence. Unless approved by the instructor ahead of time, all absences will be unexcused. **Three unexcused absences will result in the loss of a letter grade in the class. Five unexcused absences will result in failure of the course.** The following and only the following absences are eligible to be excused: religious holidays, as specified in FSU policy; absences due to representing FSU at official functions, including intercollegiate debating or varsity sports events; and verified emergencies and/or illness. While one is not penalized per se for excused absences, s/he is nevertheless responsible for all content missed, including any assignments, knowledge, or skills covered or assigned.

### **Students with Disabilities**

Students with disabilities needing academic accommodation should:

- (1) Register with and provide documentation to the Student Disability Resource Center; and
- (2) Bring a letter to the instructor indicating the need for accommodation and what type. This should be done during the first week of class.

This syllabus and other class materials are available in alternative format upon request. For more information about services available to FSU students with disabilities, contact the Student Disability Resource Center

97 Woodward Avenue, South

Florida State University

Tallahassee, FL 32306-4167

(850) 644-9566 (voice)

(850) 644-8504 (TDD)

[sdrc@admin.fsu.edu](mailto:sdrc@admin.fsu.edu)

<http://www.fsu.edu/~staffair/dean/StudentDisability/>

### **Academic Honor Policy**

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to ". . . be honest and truthful and . . . [to] strive for personal and institutional integrity at Florida State University."

(Florida State University Academic Honor Policy, found at

<http://www.fsu.edu/~dof/honorpolicy.htm>.)

Any violation of the code, such as plagiarism (copying someone else's work and presenting it as your own, paraphrasing someone else's work without proper attribution) or cheating, will not be tolerated in this class. Violations will result in a grade of "F" for this course.

*Note: This schedule is subject to revision, based on class needs.*

**Required readings are listed first.** Required readings are contained in the textbooks or on Blackboard. I have also listed additional readings that you may wish to consult if you are interested in reading more about a particular topic.

**Topic 1: Course Introduction: Transportation By the Numbers**

There are no required readings on this topic.

*Additional Readings:*

Bureau of Transportation Statistics. 2004. *Transportation Statistics Annual Report 2004*. US Department of Transportation.

Pisarski, A. 1996. *Commuting in America II: The Second National Report on Commuting Patterns and Trends*. Eno Foundation.

Pucher and Renne. 2003. "Socioeconomics of Urban Travel: Evidence from the 2001 NHTS," in *Transportation Quarterly* 57(3): 49-77.

Wilson, R. 2001. *Transportation in America 2000*. Eno Foundation.

**Topic 2: Transportation Development and Institutional Change (1790-1900)**

**Required Readings:**

Thompson, Greg. 2002. "Transportation Development and Institutional Change." **(Blackboard)**

*Additional Readings:*

Garrison, William L. 2002. "Technological Changes and Transportation."

Monkkonen, Eric. 1988. "Transportation: From Animal to Automobile." *From America Becomes Urban: The Development of US Cities and Towns 1780-1980*. Los Angeles: University of California Press.

Weiner, Edward. *Urban Transportation Planning in the United States, an Historical Overview*. US Department of Transportation.

**Topic 3: The Evolving Federal Role in Transportation (1893-1955)**

**Required Readings:**

Brown, Jeffrey. 2003. "Early History (1893-1955)" from *The Numbers Game: The Politics of the Federal Surface Transportation Program*. **(Blackboard)**

*Additional Readings:*

Brown, Jeffrey. 2003. *The Numbers Game: The Politics of the Federal Surface Transportation Program*. PhD Dissertation, UCLA.

Brown, Jeffrey. 1998. *Trapped in the Past: The Gas Tax and Highway Finance*. Master's Thesis, UCLA.

Seely, Bruce. 1987. *Building the American Highway System: Engineers as Policy Makers*. Philadelphia, PA: Temple University Press.

Weiner, Edward. *Urban Transportation Planning in the United States, an Historical Overview*. US Department of Transportation.

**Topic 4: The 1956 Federal-Aid Highway Act and Its Legacy: Finance and Institutions**

***Required Readings***

Dunn, J. 1998. "Promoting Highways: Trust Funds and Taxes," Chapter 2 in *Driving Forces: The Automobile, Its Enemies, and the Politics of Mobility*. Washington, DC: Brookings Institution. **(Textbook)**

Taylor, Brian. 2004. "The Geography of Urban Transportation Finance." From *The Geography of Urban Transportation, Third Edition* **(Textbook)**

Puentes and Prince. 2003. "Fueling Transportation Finance: A Primer on the Gas Tax." Brookings Institution Series on Transportation Reform. **(Blackboard)**

Wachs, Martin. 2003. "Improving Efficiency and Equity in Transportation Finance." Brookings Institution Series on Transportation Reform. **(Blackboard)**

*Additional Readings:*

Brown, Jeffrey. 2003. "Donor States versus Donee States: The Geopolitical Struggle over Federal Highway Dollars." **(Blackboard)**  
*(This is a useful background piece for the donor-donee memo exercise.)*

Lockwood, S. 1995. "Public-Private Partnerships in US Highway Finance: ISTEA and Beyond." *Transportation Quarterly* 49(1): 5-26.

Mertz, W. Lee. 19???. *Origins and Construction of the Interstate System*. Available through the Federal Highway Administration at <<<http://www.fhwa.dot.gov/infrastructure/origin.htm>>>.

Mertz, W.L. and Joyce Ritter. 19?? *Building the Interstates*. Available through the Federal Highway Administration at <<<http://www.fhwa.dot.gov/infrastructure/build.htm>>>.

Poole, Robert. 1996. Defederalizing Transportation Funding. Reason Foundation Policy Study No. 216.

Rose, Mark. 1990. *Interstate: Express Highway Politics, 1939-1989*. Knoxville, TN: University of Tennessee Press.

Roth, G. "A Road Policy for the Future." *Regulation* Spring 2003: 54-59.

Weiner, Edward. *Urban Transportation Planning in the United States, an Historical Overview*. US Department of Transportation.

**Topic 5: The Development and Evolution of Urban Transportation Planning**  
**Required Readings**

Brown, Jeffrey. 2005. "A Tale of Two Visions: Harland Bartholomew, Robert Moses, and the Development of the American Freeway." *Journal of Planning History* 4 (1). **(Blackboard)**

Brown, Jeffrey. 2006. "From Traffic Congestion to Limited Ways: The Effort to Build a Science of Transportation Planning." *Journal of Planning History* 5 (1). **(Blackboard)**

*Additional Readings:*

Altshuler, Alan. 1965. *Locating the Inner-city Freeway*. Indianapolis: Bobbs-Merrill.

Brown, Jeffrey. 2005. "Building Autopia: Pre-Interstate Era Urban Freeway Planning." FSU Planning and Development Lab Working Paper.

Connerly, Charles. 2002. "From Racial Zoning to Community Empowerment: The Interstate Highway System and the African-American Community in Birmingham, Alabama." *Journal of Planning Education and Research* 22: 99-114.

Ellis, Clifford. 1990. *Visions of Urban Freeways, 1930-1970*. Unpublished Ph.D. dissertation in City and Regional Planning. UC Berkeley.

Lewis, Tom. 1999. *Divided Highways: Building the Interstate Highways, Transforming American Life*. Penguin: New York.

Mertz, W. Lee. 19???. *Origins and Construction of the Interstate System*. Available through the Federal Highway Administration at <<<http://www.fhwa.dot.gov/infrastructure/origin.htm>>>.

Mertz, W.L. and Joyce Ritter. 19?? *Building the Interstates*. Available through the Federal Highway Administration at <<<http://www.fhwa.dot.gov/infrastructure/build.htm>>>.

Mohl, Raymond. 2004. "Stop the Road: Freeway Revolts in American Cities." *Journal of Urban History* 30(5): 674-706.

Orlin, Glenn S. 1992. *Evolution of the American Urban Parkway*. Unpublished Ph.D. thesis, George Washington University.

Schwartz, Gary T. 1976. "Urban Freeways and the Interstate System," from *Southern California Law Review* 49 (3): 406-513.

Taylor, Brian D. 2000. "When Finance Leads Planning: Urban Planning, Highway Planning, and Metropolitan Freeways," from *Journal of Planning Education and Research*. 20(2): 196-214.

**Topic 6: Three Cs, ISTEA, TEA-21, and SAFETEA-LU: The Evolution of Modern Federal Transportation Policy (1956-2006)**

Weiner, Edward. Chapter 3 on "History of Urban Transportation Planning" in *Urban Transportation Planning in the United States, an Historical Overview*. US Department of Transportation. **(Blackboard)**

Weingroff, Richard. Undated. "Creating a Landmark: The Intermodal Surface Transportation Efficiency Act of 1991." **(Blackboard Link)**

*Additional Readings:*

Black, Alan. 1995. "The Federal Role in Urban Transit," from *Urban Mass Transportation Planning*. New York: McGraw-Hill.

Black, Alan. 1995. "The History of Urban Transit," from *Urban Mass Transportation Planning*. New York: McGraw-Hill.

Brown, Jeffrey. 2003. *The Numbers Game: The Politics of the Federal Surface Transportation Program*. PhD Dissertation, UCLA.

Brown, Jeffrey. 1998. *Trapped in the Past: The Gas Tax and Highway Finance*. Master's Thesis, UCLA.

Burbank and Paulson. 1997. "The 3:16 am Syndrome." FHWA website.

Dittmar, Hank. 1995. "A Broader Context for Transportation Planning: Not Just An End in Itself," in *Journal of the American Planning Association* 61(1): 7-13.

FHWA. 1999. *A Guide to Federal-Aid Programs and Projects*.

FHWA. 1999. *Financing Federal-Aid Highways*.

Jones, David W. 1985. *Urban Transit Policy: An Economic and Political History*. Prentice-Hall, Inc.: Englewood Cliffs, NJ.

Mazur, G. 1998. "Federal Highway Funding: All the Basics." *Transportation Quarterly* 52(4): 19-32.

Smallen, David. 1998. "TEA-21: An Historic Piece of Legislation."

Walters, J. 2002. "The TEA Generation." *Governing Magazine* May 2002: 70-76.

### **Topic 7: Politics Rears Its Head!**

#### **Required Readings:**

Dunn, J. 1998. "The Automobile and Its Enemies: The Making of a Policy Vanguard," Chapter 1 in *Driving Forces: The Automobile, Its Enemies, and the Politics of Mobility*. **(Textbook)**

Dunn, J. 1998. "Regulating the Auto Industry: Washington versus Detroit," Chapter 3 in *Driving Forces: The Automobile, Its Enemies, and the Politics of Mobility*. **(Textbook)**

#### *Additional Readings:*

Beshers, Eric. 1994. "External Costs of Automobile Travel and Appropriate Policy Responses." Highway Users Federation.

Mackenzie, et al. 1992. "The Going Rate: What it Really Costs to Drive." World Resources Institute.

### **Topic 8: Accessibility versus Mobility**

#### **Required Readings:**

Hanson, Susan. 2004. "The Context of Urban Travel: Concepts and Recent Trends." From *The Geography of Urban Transportation, Third Edition* **(Textbook)**

Muller, Peter. 2004. "Transportation and Urban Form: Stages in the Spatial Evolution of the American Metropolis." From *The Geography of Urban Transportation, Third Edition* (Textbook)

Litman, Todd. 2003. "Measuring Transportation: Traffic, Mobility, and Accessibility." Victoria Transportation Policy Institute. (Blackboard)

*Additional Readings:*

Geurs, Kerst and Bert van Wee. 2004. "Accessibility Evaluation of Land Use and Transport Strategies: Review and Research Directions," in *Journal of Transport Geography* 12: 127-140.

Handy, Susan. 2002. *Accessibility vs Mobility: Enhancing Strategies for Addressing Automotive Dependence in the US*. ITS-Davis Publication No. UCD-ITS-RR-02-15.

Handy, Susan. 1992. "Regional Versus Local Accessibility: Neo-traditional Development and Its Implications for Non-work Travel." *Built Environment* 18(4): 253-267.

Handy, Susan. 1993. "Regional versus Local Accessibility: Implications for Non-work Travel," in *Transportation Research Record* 1400: 58-66.

**Topic 9: Modern Transportation Planning: The Role of the MPO**

**Required Readings:**

Goldman, Todd and Elizabeth Deakin. 2000. "Regionalism Through Partnership? Metropolitan Planning Since ISTEA" from *Berkeley Planning Journal* 14: 46-75. (Blackboard)

Puentes and Bailey. 2003. "Improving Metropolitan Decision Making in Transportation: Greater Funding and Devolution for Greater Accountability." Brookings Institution Series on Transportation Reform. (Blackboard)

US Department of Transportation. "A Guide to Metropolitan Planning Under ISTEA: How the Pieces Fit Together." (Blackboard)

**Topic 10: Transp. Planning Techniques: The Short Course (Four Sessions)**

**Overview and Four-Step Model: Required Readings**

Beimborn, Edward, Rob Kennedy, and William Schaeffer. *Inside the Black Box: Making Transportation Models Work for Livable Communities*. Prepared for Citizens for a Better Environment and the Environmental Defense Fund. (Blackboard)

Johnston, Robert. 2004. "The Urban Transportation Planning Process." From *The Geography of Urban Transportation, Third Edition* (Textbook)

**Additional Conversation: Required Readings**

DeCorla-Souza, Patrick. Undated. Using SPASM for Transportation Decision-Making. Federal Highway Administration. (Blackboard)

Wachs, Martin. 2004. "Reflections on the Planning Process." From *The Geography of Urban Transportation, Third Edition* (Textbook)

**Additional Readings:**

Small, K. 1999. "Project Evaluation." From *Essays in Transportation Economics and Policy*. Brookings Institution.

Nyerges, Timothy. "GIS in Urban-Regional Transportation Planning." From *The Geography of Urban Transportation, Third Edition*

**Topic 11: Public Transportation: An Overview**

**Required Readings:**

Dunn, J. 1998. "Restoring Urban Transit: Between Protection and Rejuvenation," Chapter 4 in *Driving Forces: The Automobile, Its Enemies, and the Politics of Mobility*. Washington, DC: Brookings Institution. (Textbook)

Pucher, John. 2004. "Public Transportation." From *The Geography of Urban Transportation, Third Edition* (Textbook)

**Additional Readings:**

Black, Alan. 1995. "The History of Urban Transit," from *Urban Mass Transportation Planning*. New York: McGraw-Hill.

Black, Alan. 1995. "The Federal Role in Urban Transit," from *Urban Mass Transportation Planning*. New York: McGraw-Hill.

FTA. 2002. *National Transit Summaries*. US Department of Transportation.

Gomez-Ibanez. 1996. "Big-City Transit Ridership, Deficits, and Politics: Avoiding Reality in Boston," in *Journal of the American Planning Association* 62(1): 30-50.

Jones, David W. 1985. *Urban Transit Policy: An Economic and Political History*. Prentice-Hall, Inc.: Englewood Cliffs, NJ.

Pucher, J. 2002. "Renaissance of Public Transport in the United States?" in *Transportation Quarterly* 56(1): 33-49.

**Topic 12: Public Transit Planning**

**Required Readings:**

Black, Alan. 1995. "Planning Transit Networks," from *Urban Mass Transportation Planning*. New York: McGraw-Hill. **(Reading Room)**

Black, Alan. 1995. "Pricing and Financing," from *Urban Mass Transportation Planning*. New York: McGraw-Hill. **(Reading Room)**

Excerpts from *Demand for Public Transport* Report. **(Reading Room)**

*Additional Readings:*

Black, Alan. 1995. "Operations and Management," from *Urban Mass Transportation Planning*. New York: McGraw-Hill.

Black, Alan. 1995. "Estimating System Costs," from *Urban Mass Transportation Planning*. New York: McGraw-Hill.

Cervero, R. 1990. "Transit Pricing Research." *Transportation* 17: 117-139.

Karlaftis and McCarthy. 1997. "Subsidy and Public Transit Performance: A Factor Analytic Approach," in *Transportation* 24: 253-270.

Levinson, Herbert S. 1992. "System and Service Planning," from *Public Transportation*, Second Edition. Englewood Cliffs: Prentice Hall.

**Topic 13: Public Transit Innovations**

**Required Readings:**

Brown, et al. 2003. "Fare-Free Public Transit at Universities: An Evaluation," in *Journal of Planning Education and Research* 23: 69-82. **(Blackboard)**

Levinson, et al. 2002. "Bus Rapid Transit: An Overview," in *Journal of Public Transportation* 5(2): 1-30. **(Blackboard)**

*Additional Readings:*

Brown, et al. 2001. "Unlimited Access," in *Transportation* 28: 233-267.

Kain and Liu. 1999. "Secrets of Success: Assessing the Large Increases in Transit Ridership Achieved by Houston and San Diego Transit Providers," in *Transportation Research Part A* 33: 601-624

Jarzab, et al. 2002. "Characteristics of Bus Rapid Transit Projects: An Overview," in *Journal of Public Transportation* 5(2): 31-46.

Polzin and Baltes. 2002. "Bus Rapid Transit: A Viable Alternative?" in *Journal of Public Transportation* 5(2): 47-70.

Carey, G. 2002. "Applicability of Bus Rapid Transit to Corridors with Intermediate Levels of Transit Demand," in *Journal of Public Transportation* 5(2): 97-114.

Vuchic, V. 2002. "Bus Semirapid Transit Mode Development and Evaluation," in *Journal of Public Transportation* 5(2): 71-96.

**Topic 14: Transit in Non-traditional Places: Challenging the Conventional Wisdom** *Required Readings:*

Thompson, Gregory, Jeffrey Brown, Rupa Sharma, and Samuel Scheib. 2006. "Where Transit Use is Growing: Surprising Results." *Journal of Public Transportation*. (Blackboard)

Thompson, Gregory and Jeffrey Brown. 2005. "Explaining Variation in Transit Ridership Change in U.S. Metropolitan Areas Between 1990 and 2000: A Multivariate Analysis." Presented at 2006 *Transportation Research Board Conference*. (Blackboard)

Brown, Jeffrey and Gregory Thompson. 2005. "Examining the Influence of Multidestination Service Orientation on Transit Productivity Change: A Multivariate Analysis." Presented at 2006 *Transportation Research Board Conference*. (Blackboard)

*Additional Readings:*

Thompson and Matoff. 2003. "Keeping Up with the Joneses: Planning for Transit in Decentralizing Regions." *Journal of the American Planning Association* 69 (3): 296-312.

**Topic 15. Traffic Congestion: An Overview**

*Required Reading:*

Downs, Anthony. 2004. *Still Stuck in Traffic*. Pages 1-90. (Textbook)

*Additional Readings*

Texas Transportation Institute. 2005. Urban Mobility Report. Online at <http://mobility.tamu.edu/ums/report/>

**Topic 16. Transportation-Based Solutions to Traffic Congestion (Two Sessions)**

**Required Reading:**

Downs, Anthony. 2004. *Still Stuck in Traffic*. Pages 91-199. (Textbook)

*Additional Readings: Induced Demand Readings and TDM Readings*

Baldassare, M., et al. 1998. "Suburban Attitudes toward policies aimed at reducing solo driving," in *Transportation* 25:99-117.

Cervero, R. 1999. "Reviving HOV lanes," in *Transportation Quarterly* 53(4): 67-81.

Cervero, R. 2003. "Road Expansion, Urban Growth, and Induced Travel," in *Journal of the American Planning Association* 69(2): 145-163.

Dahlgren, J. 1998. "High Occupancy Vehicle Lanes: Not Always More Effective Than General Purpose Lanes," in *Transportation Research Part A* 32(2): 99-114.

Ewing, R. 1993. "TDM, Growth Management, and the Other Four out of Five Trips," in *Transportation Quarterly* 47(3): 343-366.

Ferguson, E. 1997. "The Rise and Fall of the American Carpool," in *Transportation* 24: 349-376.

Ferguson, E. 1999. "The Evolution of Travel Demand Management," in *Transportation Quarterly* 53(2): 57-78.

Hansen and Huang. 1997. "Road Supply and Traffic in California Urban Areas," in *Transportation Research Part A* 31(3): 205-218.

Hirten and Beroldo. 1997. "Ridesharing Programs Cost Little, Do a Lot," in *Transportation Quarterly* 51(2): 9-13.

Johnston and Ceerla. 1996. "The Effects of New High-Occupancy Vehicle Lanes on Travel and Emissions," in *Transportation Research Part A* 30(1): 35-50.

Mokhtarian and Salomon. 2001. "How Derived is the Demand for Travel? Some Conceptual and Measurement Considerations," in *Transportation Research Part A* 35: 695-719.

Noland, R. 2001. "Relationships between Highway Capacity and Induced Vehicle Travel," in *Transportation Research Part A* 35:47-72.

Pisarski, A. 1997. "Carpooling: Past Trends and Future Prospects," in *Transportation Quarterly* 51(2): 6-8.

*Additional Readings: Pricing*

DeCorla-Souza, P. 2002. "The Long-Term Value of Value Pricing in Metropolitan Areas," in *Transportation Quarterly* 56(3): 19-31.

Orski, CK. 2002. "Charging for the Use of Roads," in *Transportation Quarterly* 56(3): 33-35.

Dahlgren, J. 2002. "High-Occupancy/Toll Lanes: Where Should they be Implemented?" *Transportation Research Part A* 36: 239-255.

Giuliano, G. 1994. "Equity and Fairness Considerations of Congestion Pricing." From Curbing Gridlock. Transportation Research Board.

Harrington, W, et al. 2001. "Overcoming Public Aversion to Congestion pricing," in *Transportation Research Part A* 35: 87-105.

Jakobbson, et al. 2002. "Effects of Economic Disincentives on Private Car Use," in *Transportation* 29:349-370.

Litman, Todd. London Congestion Pricing: Implications for Other Cities. VTPI. Online at [vtpi.org](http://vtpi.org)

Mohring, H. 1999. "Congestion." From *Essays in Transportation Economics and Policy*. Brookings Institution.

Small, K. 1992. "Using the Revenue from Congestion Pricing." *Transportation* 19: 359-381.

Wachs, M. 1994. "Will Congestion Pricing Ever Be Adopted?" Access.

**Topic 17: Land Use-Related Solutions to Traffic Congestion**

**Required Readings:**

Downs, Anthony. 2004. *Stuck in Traffic*. Pages 200-271. (Textbook)

Giuliano, Genevieve. 2004. "Land Use Impacts of Transportation Investments: Highway and Transit." From *The Geography of Urban Transportation, Third Edition* (Textbook)

*Additional Readings:*

Boarnet, M and S Sarmiento. 1998. "Can Land-use Policy Really Affect Travel Behavior? A Study of the Link Between Non-work travel and Land-use Characteristics," in *Urban Studies* 35(7): 1155-1169.

Cervero, R. 1996. "Mixed Land Uses and Commuting: Evidence from the American Housing Survey," in *Transportation Research Part A* 30 (5): 361-377.

Cervero, R. 2002. "Built Environments and Mode Choice: Toward a Normative Framework," in *Transportation Research Part D* 265-284.

Crane, R. 2000. "The Influence of Urban Form on Travel: An Interpretive Review," in *Journal of Planning Literature* 15(1): 3-23.

**Topic 18: Traffic Congestion: Policy Discussion**

***Required Readings:***

Downs, Anthony. 2004. *Stuck in Traffic*. Pages 298-354. (Textbook)

Dunn, J. 1998. "Rationalizing Sprawl: Can Access be Improved by Restricting Mobility?," Chapter 6 in *Driving Forces: The Automobile, Its Enemies, and the Politics of Mobility*. Washington, DC: Brookings Institution. (Textbook)

**Topic 19: Concluding Thoughts**

***Required Readings:***

Dunn, J. 1998. "Toward a Politics of Mobility: The Auto, Plus," Chapter 7 in *Driving Forces: The Automobile, Its Enemies, and the Politics of Mobility*. Washington, DC: Brookings Institution. (Textbook)

Giuliano and Hanson. 2004. "Managing the Auto." From *The Geography of Urban Transportation, Third Edition* (Textbook)

## Course Calendar

Week	Dates	Lecture 1	Lecture 2	Readings	Assignment Due
1	1/8-1/12	Introduction: Transportation by the Numbers	Transportation Development and Institutional Change (1790-1900)	Thompson 2002	
2	1/15-1/19	The Evolving Federal Role in Transportation (1893-1955)	The 1956 Federal Aid Highway Act and Its Legacy: Finance and Institutions	Brown 2003; Dunn 1998 (Ch 2), Taylor 2004, Wachs 2003, Puentes and Prince (2003)	
3	1/22-1/26	The Development and Evolution of Urban Transportation Planning, 1900-1956	Three Cs, ISTEA, TEA-21, and SAFETEA-LU: The Evolution of Modern Federal Transportation Policy (1956-2006)	Brown 2005, Brown 2006; Weiner Ch3; Weingroff Undated	
4	1/29-2/2	Three Cs, ISTEA, TEA-21, and SAFETEA-LU: The Evolution of Modern Federal Transportation Policy (1956-2006)	Politics Rears Its Head	Weiner Ch3; Weingroff Undated; Dunn (Ch.1, Ch.3)	
5	2/5-2/9	Accessibility and Mobility	The Role of the MPO (I)	Hanson 2004, Muller 2004, Litman 2003; Goldman and Deakin (2000), Puentes and Bailey (2003), USDOT	Book Review Due (Assignment Option 1): due February 9th 5pm
6	2/12-2/16	Proposal Peer Review	The Role of the MPO (II)	Goldman and Deakin (2000), Puentes and Bailey (2003), USDOT	<b>Paper Proposal Due Feb. 13th for Peer Review in class</b>
7	2/19-2/23	Transportation Planning Techniques: Overview and The Four-Step Model	Transportation Planning Techniques II: Additional Conversation	Beimborn, et al, Johnston 2004, Wachs 2004	<b>Paper Proposal Due to Me Feb 20th in class</b> Donor-Donor Debate (Assignment Option 2): due February 23rd 5pm
8	2/26-3/2	<i>Transportation Planning Techniques: 4 step model (in DURP Lab)</i>	<i>Transportation Planning Techniques: Sketch Planning (in DURP Lab)</i>	DeCorla-Souza Undated	Accessibility Evaluation (Assignment Option 3): due March 2nd 5pm
<b>SB</b>	<b>3/5-3/9</b>	<b>Spring Break</b>			
9	3/12-3/16	Public Transportation: Overview	<i>Public Transportation Performance Analysis (FITS) in DURP lab</i>	Dunn 1998 (Ch.4), Pucher 2004	Travel Behavior Analysis (Assignment Option 4): due March 16th 5pm
10	3/19-3/23	Public Transit Planning	Public Transit Innovations 1: Pass Programs	Black 1995; Demand for Public Transport Report; Brown, et al 2003	Four-Step Model Exercise (Assignment Option 5): due March 23rd 5pm
11	3/26-3/30	Public Transit Innovations 2: BRT	Transit in Non-traditional Places	Levinson, et al 2002; Thompson, et al 2006; Thompson and Brown 2005, Brown and Thompson 2005	Sketch Planning Exercise (Assignment Option 6): due March 30th 5pm
12	4/2-4/6	Traffic Congestion Overview	Transportation-Based Solutions	Downs 2004 (pp.1-90, 91-151)	Public Transit Analysis (Assignment Option 7): due April 6th 5pm
13	4/9-4/13	Transportation-Based Solutions	Land Use Based Solutions	Downs 2004 (pp. 152-199, 200-271), Giuliano 2004	
14	4/16-4/20	Policy Discussion	Concluding Thoughts	Downs 2004 (pp.298-354), Dunn 1998 (Ch.6); Dunn 1998 (Ch 7), Giuliano and Hanson (2004)	<b>Final Paper Due at 5pm on April 20th</b>
<b>Finals Week</b>	<b>4/23-4/27</b>				