**Draft Syllabus**

**Introduction to Transportation Planning**

URBPL 4710/6710-001  Fall 2009  3 Credit Hours  
Room: ARCH 228  Mondays & Wednesdays  10:45-12:05

**Instructor:** Keith Bartholomew, J.D. – Assistant Professor, Department of City & Metropolitan Planning, College of Architecture + Planning; former associate director of the Wallace Stegner Center for Land, Resources and the Environment at the S.J. Quinney College of Law; former staff attorney for 1000 Friends of Oregon, one of the nation’s leading growth management advocacy organizations (see [http://www.friends.org](http://www.friends.org)).

**Introduction:** Aside from cruising State Street on a Saturday night, transportation is not an objective in and of itself, but a means to carry out the functions of daily living (i.e., it’s a “derived good”). As a consequence, the transportation systems we build and maintain form the armature for our communities and regions. That armature both affects and is affected by the land use patterns that surround it, and the interactions between land use and transportation influence a host of public and environmental values, including air quality, energy consumption, climate change, social equity, fiscal health, and public health. Unfortunately, most transportation planning processes fail to acknowledge fully these interactive relationships. While we will spend some time in this course looking at transportation issues in isolation, we will focus most of our study on the interactions between transportation and a number of other systems important to communities.

This course provides an introduction to transportation planning issues, processes, and policies. It serves as the pre-requisite course for advanced transportation planning courses in the Department of City & Metropolitan Planning and as the core course for an anticipated graduate certificate in Sustainable Transportation & Development (see below).

**Course Objectives:** The objectives of this course are to provide students with a comprehensive understanding of:

- current transportation policies and conditions in the U.S.,
- the impacts those policies and conditions have on other human and environmental systems,
- the major community and environmental influences implicit in American transportation policy, and
- the planning processes that have led to these outcomes.

Schedule (subject to change):

Class 1: Trends in U.S. Transportation

Class 2: Intro to Congestion
        Downs, Chapters 1-3

Class 3: Mobility & Accessibility I
        Hansen, Chapter 1

Class 4: Mobility & Accessibility II
        TBA

Class 5: Intercity Transportation I
        Hansen, Chapter 2

Class 6: Intercity Transportation II
        TBA

Class 7: Transp. & Urban Form I
        Hansen, Chapter 3
        Newman & Kenworthy, *Sustainability and Cities*, pages 27-40 (e-reserve)

Class 8: Transp. & Urban Form II
        Hansen, Chapter 9
        Boarnet, *Do Highways Matter?* (WebCT)

Class 9: Information Technologies I (Cyber-commuting)
        Hansen, Chapter 4

Class 10: Information Technologies II (smart commuting)
        TBA

Class 11: Exam 1

Class 12: Transp. & Energy
        Hansen, Chapter 10

Class 13: Transp. & Climate I
        Ewing, Bartholomew, et al., *Growing Cooler* (excerpt)

Class 14: Transp. & Climate II
        TBA
Class 15: Transp. & Air Quality I
Hansen, Chapter 13

Class 16: Transp. & Air Quality II
STPP, Clearing the Air, pages 1-48 (WebCT)
TBA

Class 17: Transp. & Social/Envtl. Justice I
Hansen, Chapter 12

Class 18: Transp. & Social/Envtl. Justice II
Sanchez book (excerpt)
STPP, Driven to Spend (WebCT)

Class 19: Triple Convergence/Induced Demand/Induced Development
Downs, Chapters 4, 6, 8 & 9

Class 20: Transportation Pricing & Demand Management
Downs, Chapter 10
TBA

Class 21: Social Marketing & Travel Behavior
Bartholomew, The Machine, the Garden, and the City (WebCT)

Class 22: Travel Impacts of Land Use Patterns
Downs, Chapters 12-15
TBA

Class 23: Exam II

Class 24: Transportation Planning Processes I
Hansen, Chapter 5

Class 25: Transportation Planning Processes II
Hansen, Chapter 6

Class 27: Metropolitan Planning Organizations
Sanchez Brookings paper
Adler & Dill, The Evolution of Transportation Planning in the Portland Metropolitan Area (e-reserve)
WFRC, Growth Principles and Objectives for Transportation Planning (WebCT)

Class 28: Intro to Travel Modeling
Beimborn, Inside the Black Box (WebCT)
Evaluation: I will base my assessment of student performance on four sources:

- **Class Participation (X%)**: I will keep track of your participation in class discussions, especially when I call on you. As a consequence, being present in, and prepared for, class is essential.
- **Exams (X%)**: The two mid-course exams will cover materials presented in the preceding weeks, and will use a variety of formats. The exams will be closed book.
- **Final Exam (X%)**: The final exam will follow a format similar to the mid-course exams, and will be comprehensive. It will also be closed book.
- **Graduate Students: Professional Projects/Papers**: In addition to the above requirements, graduate students will complete a professional project or research paper, which will be selected in the first two weeks of the semester. I will meet with each graduate student every 3 weeks to give guidance and monitor progress on their projects/papers.

Grades: Letter grades for the semester will be earned using the following scale: A ≥ 93.3%; A- ≥ 90.0%; B+ ≥ 86.6%; B ≥ 83.3%; B- ≥ 80.0%; C+ ≥ 76.6%; C ≥ 73.3%; C- ≥ 70.0%; D+ ≥ 66.6%; D ≥ 63.3%; D- ≥ 60.0%.

Note: There is a direct correlation between effort invested and grade received. Keeping up with the assignments, attending class, and actively participating in class discussions will significantly increase your odds of getting a good grade.

Important Dates: The last day to drop this class is XXXX; the last day to add it is XXXX; tuition is due XXXX; the last day to late add is XXXX; the last day to withdraw is XXXX.

ADA Statement: The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in alternative format with prior notification to the Center for Disability Services.

WebCT/Blackboard: The course will employ WebCT software to share information about newsworthy events and articles, provide many of the course readings, facilitate discussions outside of class, and give instant access to grades. You have “constructive notice” of any information posted on the course WebCT site during the semester. That means I will assume you have received information posted to the site, and that you take responsibility for the consequences if you choose to not check the site regularly. If you are not already familiar with WebCT, you can learn about it at: http://webct.utah.edu.

Academic Misconduct: The course website contains a statement from the University Student Handbook on academic misconduct. It also contains a link to the Code of Ethics of the American Institute of Certified Planners (AICP). As students at the University of Utah and beginning planners, you should consider yourselves bound by both sets of ethical standards. By the second class session I will assume that each student has read both the statement from the Handbook and the AICP Code.
Graduate Certificate in Sustainable Transportation and Development

Department of City & Metropolitan Planning
University of Utah

Proposed to begin 2009-2010

Aside from cruising State Street on a Saturday night, transportation is not an objective in and of itself, but a means to carry out the functions of daily living, connecting us from where we are to where we need to be. Those functions, which are spatially arrayed across the physical landscape, both influence and are influenced by the transportation systems we build and maintain. These interactions between land use and transportation influence a host of public and environmental values, including air quality, energy consumption, climate change, social equity, fiscal health, and public health.

The Department of City & Metropolitan Planning (CMP) is developing a new graduate certificate program to focus on these overlapping planning issues. The new program, the Graduate Certificate in Sustainable Transportation and Development (STAD), will provide post-baccalaureate students with in-depth study into land use and transportation planning topics. The program is designed for students already enrolled in graduate programs in planning and allied fields, as well as professionals wishing to accrue expertise in the growing field of land use-transportation studies.

The STAD program takes advantage of the CMP faculty’s extensive depth in land use and transportation research. Collectively, the CMP faculty comprise one the nation’s strongest concentrations of research faculty in the land use and transportation field. Faculty publications include: U.S. Traffic Calming Manual (APA, 2009); The New Politics of Planning: How States and Local Governments Are Coming to Common Ground on Reshaping America’s Built Environment (ULI, 2009); Growing Cooler: The Evidence on Urban Development and Climate Change (ULI, 2008); The Right to Transportation: Moving to Equity (APA, 2008); The Social Impacts of Urban Containment (Ashgate, 2007); Urban Containment In The United States: History, Models, And Techniques For Regional And Metropolitan Growth (Planners Press, 2004); Transportation & Land Use Innovations: When You Can’t Build Your Way Out of Congestion (APA, 1997); and Best Development Practices (APA, 1996). Plus, the faculty has authored hundreds of articles in such publications as the Journal of the American Planning Association, Journal of Planning Literature, Journal of Urban Design, Transportation, and the Transportation Research Record.

The program as proposed will require the completion of 18 credit hours. All STAD students will take Introduction to Transportation Planning (URBPL 6710), Urban Growth Management (URBPL 6330), and GIS in Planning (URBPL 6450). They will also take at least 6 half-semester seminar courses, each of which focuses on a specific topic. Topic areas will include the following: pedestrian and bicycle planning, transportation policy, metropolitan and state transportation planning processes, land use and transportation interactions, travel demand modeling, air quality planning and modeling, street design and traffic calming, urban design, transportation demand and systems management, and traffic impact studies.
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<thead>
<tr>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>URBPL 6710: Introduction to Transportation Planning</td>
<td>3</td>
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<tr>
<td>URBPL 6720: Special Topics in Transportation (a series of half-semester</td>
<td>9</td>
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<td>seminars focusing a wide variety of land use-transportation related topics; each seminar will be 1.5 credit hours; students are required to complete 6)</td>
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<td>URBPL 6330: Urban Growth Management</td>
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<td>URBPL 6450: GIS in Planning</td>
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<td><strong>Total</strong></td>
<td><strong>18</strong></td>
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