Community Transport

URBPL 5720/6720-001 Spring 2008 3 Credit Hours
ARCH 227 Tuesdays & Thursdays 10:45 to 12:05

Instructor: Keith Bartholomew, J.D. – Assistant Professor of Urban 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).

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. Unfortunately, most transportation planning processes fail to acknowledge fully that inherently interactive relationship.

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. How transportation systems and their use affects land use development patterns and how development patterns influence travel behavior will be recurring themes throughout the semester.

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,
- the planning processes that have led to these outcomes, and
- micro-scale community design features implicit (and often overlooked) in transportation system design.


Schedule (subject to change):

Week 1: Intro/Context
   Jan 8: Intro: Trends in U.S. Transportation
   Jan 10: Context: Hansen, Chapter 1
         Intro to Congestion: Downs, Chapters 1-3
Weeks 2 - 4: Transportation’s Impacts on Other Systems

Jan 15: No class
Bartholomew, *Land Use-Transp. Scenario Planning in an Era of Climate Change* (WebCT)

Jan 17: Energy & Climate:
Hansen, Chapter 10

Jan 22: Air Quality:
Hansen, Chapter 13
STPP, *Clearing the Air*, pages 1-48 (WebCT)

Jan 24: Social/Environmental Justice:
Hansen, Chapter 12
STPP, *Driven to Spend* (WebCT)

Jan 29: Urban Form – Historic:
Hansen, Chapter 3
Newman & Kenworthy, *Sustainability and Cities*, pages 27-40 (e-reserve)

Jan 31: Urban Form – Current:
Hansen, Chapter 9
Boarnet, *Do Highways Matter?* (WebCT)

Exam 1: Feb 5

Weeks 5 - 7: Land Use’s Impacts on Travel Patterns

Feb 7: Infrastructure/Induced Demand:
Downs, Chapters 4, 6, 8 & 9

Feb 12: Price:
Downs, Chapter 10

Feb 14: Education:
Bartholomew, *The Machine, the Garden, and the City* (WebCT)

Feb 19: Land Use Patterns:
Downs, Chapters 12-15
TBA

Weeks 8 – 10: Transportation Planning Processes & Policies

Feb 21: ISTEA, TEA-21, SAFETEA-LU:

Feb 26: Metropolitan Planning Organizations:
Hansen, Chapter 6
Downs, Chapter 17

Feb 28: Modeling:
Hansen, Chapter 5
Beimborn, *Inside the Black Box* (WebCT)

Mar 4: Finance:
Hansen, Chapter 11
Mar 6: State Policies:  
Adler & Dill, *The Evolution of Transportation Planning in the Portland Metropolitan Area*  
(e-reserve)  
WFRC, *Growth Principles and Objectives for Transportation Planning* (WebCT)  
Mar 11: Review/catch up

**Exam 2: Mar 13**

**Weeks 11-15: Design – Community & Transportation**  
Mar 25 & 27: Pedestrian Design  
TBA  
Apr 1 & 3: Disabilities & Design  
TBA  
Apr 8 & 10: Bicycle Design  
TBA  
Apr 15 & 17: Transit Design  
TBA  
Apr 22: Review/catch up

**Final Exam:** Tuesday, April 29, 10:30 am – 12:30 pm  

**Note day/time is different from regular class sessions**

**Evaluation:** I will base my assessment of student performance on four sources:

- **Class Participation (10%)**: 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 (2 x 15%)**: 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.
- **Observations/Drawings (4 x 7.5%)**: For each of the four design components in weeks 11-15 you will be required to select a particular site in the Salt Lake region, observe how it functions (or doesn’t), sketch and notate how the design problems presented could be solved.
- **Undergraduate Students: Final Exam (30%)**: Undergraduate students will take a final exam, which will follow a format similar to the mid-course exams, and will be comprehensive. It will also be closed book.
- **Graduate Students: Professional Projects (30%)**: Graduate students will complete a community based project that will be selected in the first two weeks of the semester. Students will work in teams with professionals in the field on these projects. Final products will include a written report and a verbal presentation to the consultant/client group. I will grade the products according to the following criteria:

  - (A) Completeness/accuracy (70%): How well do the products meet the objectives specified by the consultant/client team?
  - (B) Professional presentation and comportment (15%): How professional do the products look and read? Have team members professionally met their group responsibilities?
  - (C) Style/grammar (15%): How well do the paper and presentation conform to accepted standards of style and grammar for written and spoken English?

I will meet with each graduate student team every 2-3 weeks to give guidance and monitor progress on their projects. We will meet at a time that is mutually acceptable to the group.
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 Jan 16; the last day to add it is Jan 22; tuition is due Jan 23; the last day to late add is Jan 28; the last day to withdraw is Feb. 29.

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: 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.