

Department of Economics
University of Colorado at Boulder

Jonathan Hughes
jonathan.e.hughes@colorado.edu
Office: Economics 4B

ECON 4555
Transportation Economics
SPRING 2014
T/TH 11:00-12:15, ECON 117

COURSE SYLLABUS

Overview:

This is a course in transportation economics and policy for undergraduates. Students will learn how to use economic theory and empirical tools to analyze transportation markets and policies. The course combines topics from environmental economics and industrial organization including: aggregate demand for transportation; disaggregate demand and modal instruction will emphasize

Office Hours and Contact Information:

Professor: Jonathan Hughes
Office location: Economics 4B
Office hours: Tuesdays and Thursdays from 12:15-1:45 pm (or by appointment)
Phone: (303) 735-0220
Email: jonathan.e.hughes@colorado.edu
Class web site:

findings of the paper; major assumptions or limitations of the analysis; issues of relevance for policymaking. I will randomly select several of these summaries during the semester to evaluate as part of your class participation grade.

*** Denote readings in the course schedule for which you are to turn in an executive summary.**

Grading:

15% Class participation
25% Problem sets (lowest problem set grade dropped)
30% Midterm exam
30% Final exam

Problem Sets and Empirical Exercises:

Throughout the course students will be assigned problem sets that represent a mix of theory and empirical work. For empirical exercises, we will be using data from recent studies and published government reports. The class will meet in a campus computer cluster to begin these exercises, though students may be expected to complete these assignments outside of class. An important goal of this course is to expose students to the data sources used to analyze transportation markets and policies. Due dates are listed on the course syllabus.

Examinations:

There will be an in class mid-term exam on **Tuesday March 17, 2015** and a final exam on **Tuesday May 5, 2015 from 4:30 – 7:00 pm.**

Late Assignments and Missed Examinations:

Problem sets and other assignments are due before the start of class on the date due. No late assignments will be accepted except in the case of documented medical or family emergency (though I will drop your lowest problem set which allows for one missing assignment). No make-up exams will be given. If you foresee a conflict, contact me as soon as possible in order to make alternate arrangements for you to complete the requirements of this course.

Lecture Notes: My lectures will make use of both the chalkboard and Powerpoint. The lecture slides and graphs can be downloaded from the class web site, available through D2Learn. Please visit this class website often.

Campus Policies: I will adhere to all campus policies with respect to disabilities, religious observances, appropriate behavior, discrimination and harassment, and academic conduct. See <http://www.colorado.edu/policies/>

Tentative Course Outline:

Week 1: Overview: transportation markets, energy and the environment
January 13. Introduction - course goals, thinking like an economist, market for driving
January 15. Introduction to empirical analysis
Reading: "What is econometrics"

Week 2: Aggregate demand for transportation
January 20. **Computer Lab**

Reading: "Essays" Chapter 8, *Jacobson. "Fuel Economy and Safety: The Influences of Vehicle Class and Driver Behavior" American Economic Journal: Applied Economics (2012).

Problem Set 3 Due

February 26. Highway fatalities

Reading: *Grabowski and Morrissey. "Do higher gasoline taxes save lives?" Economics Letters (2006).

April 16.

Reading:* Bitzen and Keeler. "Economies of Density and Regulatory Change in the U.S. Railroad Freight Industry" *Journal of Law and Economics* (2007).

Week 14: Air travel

April 21. Market power in air travel

Reading:* Borenstein. "Hubs and High Fares" *RAND Journal of Economics* (1989).

Problem Set 6 Due

April 23. Entry and competition in air travel

Reading:* Goolsbee and Syverson. "Do Incumbents Respond to Threat of Entry?" *Quarterly Journal of Economics* (2008). **and** *Stavins. "Price Discrimination in the Airline Market" *The Review of Economics and Statistics* (2001).

Week 15: Deregulation

April 28. Trucking deregulation

Reading:* Rose "The Incidence of Regulatory Rents in the Motor Carrier Industry" *RAND Journal of Economics* (1985).

April 30. Railroad deregulation

Reading:* Wilson. "Market-Specific Effects of Rail Deregulation" *Journal of Industrial Economics* (1994).

May 7. Final Exam 4:30 – 7:00