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Infrastructure Economics - University of California, Davis

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ECI 268: **INFRASTRUCTURE ECONOMICS**

Winter, 2008

MWF 9-10; 261 Olson

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Office Hours: MWF 10-11, by appointment, and usually when I'm in.

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<u>Date</u>	<u>Topic</u>	<u>Readings and Assignments</u>
7 Jan.	Economic Engineering Objectives and Methods [find a good overview reading; get reading&discussion going for the first 2 classes]	
9	Economic Evaluation Overview	Au 1988; Lund 1992
11	Microeconomic Theory	Follow with any Microeconomics text
14	Microeconomic Theory	<u>Bibliography, Finance, and Evaluation TOPICS DUE</u>
16	Microeconomic Theory	
18	Microeconomic Theory	
21	Holiday	
24	Economic service demands	<u>HW#1 DUE (microeconomics)</u>
26	Forecasting and "Willingness-to-pay"	
28	Benefit Cost analysis	OMB A-94; Griffin 1998; Arrow et al. 1997
30	Economic Measurement	<u>BIBLIOGRAPHY DUE</u>
1 Feb	Economic Measurement	
4	Discounting and Evaluation with Uncertainty	Baumol and Bradford papers
6	Macro-Economics	Multipliers, I/O and Econometrics; <u>HW#2 DUE</u>
8	Economic Evaluation Examples	Hanke and Walker 1974; Palmisani & Easter 1984
11	Economic-engineering system modeling	Harou and Lund paper
13	Public Finance Methods	
15	Negotiation and Cost Allocation	Giglio and Wrightington 1972
18	Holiday	
20	Economic Management Measures	<u>EVALUATION or MEASUREMENT report DUE</u>
22	Pricing	Area-specific readings [Jay gone]
25	Pricing	
27	Pricing	[Jay gone]
29	Taxation & Insurance	<u>PUBLIC FINANCE report DUE</u>
3 March	Marketable Rights	
5	Marketable Rights	
7	Privatization	
10	Optimizing Demand Management	Lund 1987 or 1990; Rosenberg et al. 2007
12	Planning Economic Systems	Hayek 1945
14	Non-Classical Economics	Alchian 1950
17	Summary and Overview	
March 20	<u>ECONOMIC MANAGEMENT report and revised BIBLIOGRPHY due</u>	

Assignments: Two homeworks are due early in the quarter. The main assignments are four small projects: 1) annotated bibliography of applications of economics to your field, including demand estimation (Due 27 Jan. & 17 Mar.), 2) 3-5 page economic evaluation or measurement report of some issue in your field (Due 15 Feb.), 3) 3-5 page report on public finance in your field (Due 27 Feb.), and 4) 3-5 page report on the application or potential application of an economic management technique in your field (Due 17 March). You are encouraged to discuss topics with the instructor as the quarter develops. Assignments 2, 3, and 4 may be group projects with commensurate increases in results expected. Alternatively, you may choose to do a larger term project applying economic ideas to an infrastructure problem, with scheduled outline, draft, and final due dates..