INFRASTRUCTURE PLANNING AND LOCAL FINANCE

Urban Design and Planning 466A/598G, Fall Quarter 2015

Class: Tuesday and Thursday, 3:00 to 4:50 pm

440 Gould Hall

Instructor: Prof. Jan Whittington

448D Gould Hall, janwhit@uw.edu

Office hours: By appointment, 448D Gould Hall

Course Webpage: https://catalyst.uw.edu/workspace/janwhit/7259/

This course is focused on infrastructure planning and finance and, more generally, on the relationship between planning and budgeting. The course is divided into three parts.

The course begins with an introduction to several infrastructure systems: water and sewer services, solid waste disposal, transportation, and fire services. In this segment of the course, infrastructure planning is distinguished from and related to budgeting and finance. We explore basic concepts, legal frameworks, politics, and processes used in the systems studied, including techniques in infrastructure planning aimed at estimating demand and predicting the effects of infrastructure projects on land use.

The second part is focused on local government finance. We study government's conceptual economic framework, budgeting approaches, and taxes such as property tax, sales tax, and user fees. We examine arguments for and examples of outcome-based, client-oriented programming and budgeting. The features of local finance are introduced with reference to the economic theories with which they are associated, including neoclassical, public goods, club goods, game theory, and transaction costs.

Infrastructure finance is the subject of the final part of the course. We examine the relationship between sources of funds and their uses for infrastructure. Our study includes all common forms of finance, such as pay-as-you-go, user fees, special districts, public and private debt, impact fees, exactions, and tax increment finance. We devote considerable attention to the equity and distributional issues that arise from alternative forms of finance. We study the assessment and prioritization of infrastructure investments in changing economic climates, the development of Capital Improvement Programs, and the implications of alternative forms of project and program delivery, such as public-private partnerships, design-build contracts, and privatization.

Disabled students are always welcome in my class. If you have a disability (physical, learning, or psychological) that makes it difficult for you to carry out the coursework as outlined and/or you require accommodations, such as note-takers, readers, or extended time on assignments and exams, please contact Disability Resources for Students within the first week of the quarter. DRS is available at 206-543-8924 (Voice & Relay), or at uwdrs@uw.edu and will be able to provide you with information and review appropriate arrangements for reasonable accommodation. For more information: http://depts.washington.edu/uwdrs/.

Required Texts:

John R. Bartle, W. Bartley Hildreth, and Justin Marlowe (eds). 2013. *Management Policies in Local Government Finance*. (6th Ed) Washington, DC: ICMA. (ICMA Website)

Justin Marlowe, William C. Rivenbark and A. John Vogt. 2009 (2nd edition). *Capital Budgeting and Finance: A Guide for Local Governments*. Washington, DC: ICMA. (ICMA Website, e-book)

David Dowall and Jan Whittington. 2003. *Making Room for the Future: Rebuilding California's Infrastructure*. San Francisco: Public Policy Institute of California. http://www.ppic.org/main/publication.asp?i=399

Instructional Objectives

- + Describe the roles of local finance and political organization in urban planning
- + Explain the relationship between public facilities, growth, and local finance, and relate these issues to contemporary urban problems, such as urban sprawl.
- + Analyze a local infrastructure system.
- + Explain the local finance process, including key concepts, relationships, processes, theories, and approaches in local finance.
- + Address equity, long-range, and distributional issues in infrastructure planning and finance.
- + Analyze local budgets and fiscal issues through concepts and theories, and gain experience in capital improvement programming and budgeting.
- + Identify and apply the rules of thumb (standards and equations) employed in infrastructure planning and local finance, and analyze the assumptions and values underlying financing techniques.

Course Requirements (perfect grade = 400 points):

Quizzes based on readings	50
Participation in class discussions	50
Systems paper	100
Group project	100
Final exam (short essay answers)	100

Academic Standards

Turn assignments in printed, in person, at the beginning of class; with an additional electronic version submitted as an e-mail attachment to your professor. Grading will be based on content, organization, and measures of style appropriate to writing at the upper undergraduate or graduate level. Style refers to your method of citing sources, grammar, punctuation, and related issues. I (strongly!) urge you all to refer to the Chicago Manual of Style (16th Edition, University of Chicago Press) as you compose and edit your work. When in doubt, check it out. Papers that do not conform to Chicago Style will be marked down, and any paper using a hot link as a replacement for a full citation will lose all credit for this assignment. See this site: http://guides.lib.uw.edu/research/citations/citation-basics. Please make use of the expertise and resources available to you. Odegaard Library has one of numerous writing centers on campus, available to you free of charge, as shown: http://guides.lib.uw.edu/c.php?g=342041&p=2300216.

Plagiarism is defined as the use of creations, ideas or words of publicly available work without formally acknowledging the author or source through appropriate use of quotation marks, references, and the like. Plagiarizing is presenting someone else's work as one's own original work or thought. This constitutes plagiarism whether it is intentional or unintentional. The University of Washington takes plagiarism very seriously. Any student who is uncertain whether his or her use of the work of others constitutes plagiarism should consult the course instructor for guidance before formally submitting the course work. At minimum, visit the following site, which articulates University policy: http://depts.washington.edu/pswrite/plag.html. The State regulations governing student conduct can be found here: http://apps.leg.wa.gov/WAC/default.aspx?cite=478-120-020. Plagiarism is not acceptable, so I advise each of you to read a style manual in order to learn how to avoid it. You, as the author of your paper, are ultimately responsible for this. Anyone found to plagiarize will be given a failing grade for this assignment and their case reported to the Associate Dean for Academics for formal review.

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Course Schedule

Date	Topic	Readings
1 Oct	Introductions	Carney, M. 2015. Speech: Breaking the Tragedy of the Horizon – Climate Change and Financial Stability. Bank of England. To read: http://www.bankofengland.co.uk/publications/Documents/speeches/2015/speech844.pdf To watch: http://www.bankofengland.co.uk/publications/Pages/speeches/2015/844.aspx
	Infrastructure Systems, Land Use, and Growth	Kelly, E. 1993. <i>Planning, Growth, and Public Facilities</i> . Planning Advisory Service Report, number 447. Chicago, IL: American Planning Association.
		Whittington, J. and C. Lynch. 2015. <i>Climate-informed decisions: The capital investment plan as a mechanism for lowering carbon emissions</i> . Policy Research Working Paper Series. The World Bank.
		Rusk, David. 2000. Growth Management: The Core Regional Issue. <i>In Reflections on Regionalism</i> . Bruce Katz, ed.; pp. 78-106. Washington, D.C.: Brookings Institution Press.
		Dowall and Whittington, Chs 1 and 2
	Demand, Supply, and Pricing: <i>Water Systems</i>	Bauman, D., J. Boland, and W. M. Hanemann. 1998. <i>Urban Water Demand Management and Planning</i> . New York: McGraw-Hill. (Chs 1 and 3)
		Hanak, E. 2005. <i>Water for Growth: California's New Frontier</i> . San Francisco: Public Policy Institute of California. (Chs 1, 3, and 4) http://www.ppic.org/main/publication.asp?i=429
		Cropf, Robert. "Water Resources" In <i>Setting Municipal Priorities 1990</i> , edited by Charles Brecher and Raymond Horton. New York: NYU Press.
13 Oct	Planning, Modeling, and Engineering Standards: <i>Transportation</i>	New Jersey Department of Transportation. 1989. Managing Transportation In Your Community. A Municipal Handbook. Trenton: NJ DOT.
		Institute of Transportation Engineers. 2010. <i>Designing Walkable Urban Thoroughfares: A Context Sensitive Approach</i> . Washington DC: ITE. (Ch 1) http://library.ite.org/pub/e1cff43c-2354-d714-51d9-d82b39d4dbad
		Edward Beimborn and Rob Kennedy. 2006. <i>Inside the Black Box: Making Transportation Models Work for Livable Communities</i> . Environmental Defense Fund. (43 pages)
		https://www.researchgate.net/publication/246480147 Inside the Blackbox Making Transportat ion_Models_Work_for_Livable_Communities
		Transportation Research Board, Committee for Determination of the State of the Practice in Metropolitan Area Travel Forecasting. 2007. <i>Metropolitan Travel Forecasting: Current Practice and Future Direction, Special Report</i> 288. Washington, DC: TRB. (Chs 4 and 5) http://onlinepubs.trb.org/onlinepubs/sr/sr288.pdf
15 Oct	Planning, Programming,	Marlowe, Ch 3
	and GIS: Fire and Solid Waste Services	Riordian, T.H., Maria E. Oria, and J.P. Tuss. 1989. "Dayton's Capital Allocation Process." In <i>Capital Project</i> , John Matzer (ed). Washington, DC: ICMA.
		Montogomery County Fire and Rescue Commission. August 11, 1999. Station Location and Resource Allocation Work Group. Phase 1 Draft Report.
		Figueroa, Roberto and Michael Kartusch. 2000. Flaming to the Scene: Routing and Locating to Get There Fast. Geospatial Solutions.
		De Kadt, Maarten. 1990. "Solid Waste Disposal." In <i>Setting Municipal Priorities 1990</i> , Charles Brecher and Raymond Horton (eds). New York: NYU Press.

20 Oct	State v. Local Capital: California Water, Transportation, and Education Systems	Dowall and Whittington, Chs 3, 4, and 10 Flyvbjerg, B. 2002. "Underestimating Costs in Public Works Projects: Error
		or Lie?" Journal of the American Planning Association, 68 (3) 279.
		Whittington, Jan. 2012. "When to Partner for Public Infrastructure?" <i>Journal of the American Planning Association</i> , 78(3) 269-285.
22 Oct	Local Finance I: Rational Planning, Public Goods Theory	Bartle, Chs 1, 2 and 3
		Pigou, Arthur C. The Economics of Welfare. 1920. Part I Chapter II, Part II Chapter II, and Part IV Chapter II. http://www.econlib.org/library/NPDBooks/Pigou/pgEW.html
		Hardin, Garrett. "The tragedy of the commons." <i>Science</i> 13 December 1968, 162 (3859): 1243-1248.
		Nash, John. "Two-person cooperative games." <i>Econometrica</i> 21 January 1953, 1: 128-140.
27 Oct	Local Finance II:	Bartle, Ch 8
	Neoclassical Economic Theory, Public Choice, and the Property Tax Systems Paper Due	Heikkila, Eric. 2000. <i>The Economics of Planning</i> . New Brunswick, NJ: CUPR, Rutgers University. (Chs 1 and 5)
		The Concise Encyclopedia of Economics. "Adam Smith (1723-1790)" Library of Economics and Liberty, 2008. http://www.econlib.org/library/Enc/bios/Smith.html
		Krugman, Paul. "Who was Milton Friedman?" The New York Review of Books. February 15, 2007. http://www.nybooks.com/articles/archives/2007/feb/15/who-was-milton-friedman/
		Friedman, Milton. "Free to Choose." PBS. 1980. Volume 1: The Power of the Market. (first 28 minutes) http://miltonfriedman.blogspot.com/
		Tiebout, Charles. "A pure theory of local expenditures." <i>The Journal of Political Economy</i> , 64 (5): 416-424.
29 Oct	Local Finance III: Forecasting, Club Goods, and Non- Property Taxes Assign Group Project	Bartle, Chs 9 and 10 (plus excerpt from Aronson and Schwartz, Ch 5)
		Buchanan, James. "An economic theory of clubs." <i>Economica</i> , New Series, 32 (125): 1-14.
		California Constitution, Article 13A. http://www.leginfo.ca.gov/.const/.article_13A
		"California Governor Jerry Brown's Proposition 13 Address", June 8, 1978. YouTube. http://www.youtube.com/watch?v=xCueOgnluDg&feature=related
		On the Block, "Do you really understand Proposition 13?" SF Gate, http://blog.sfgate.com/ontheblock/2011/11/07/do-you-really-understand-prop-13/
		The Merrow Report, "Learning Matters: First to Worst (2004)". PBS. YouTube. http://www.youtube.com/watch?v=oTtAdJi1AjQ&feature=related
3 Nov	Local Finance IV: Strategic Planning, Budgeting, Transaction Cost Theory	Bartle, Chs 4 and 6 (7 optional)
		Dowall and Whittington, Ch 5
		Rubin, I. 1996. "Budgeting for Accountability: Municipal Budgeting for the 1990s" <i>Public Budgeting and Finance</i> . Summer 1996.
		Coase, R. H. "The problem of social cost" <i>Journal of Law and Economics</i> , 3 (October 1960): 1-44.
		Williamson, Oliver. "The theory of the firm as governance structure: from choice to contract" <i>The Journal of Economic Perspectives</i> , 16 (3) (Summer 2002): 171-195.
		Williamson, Oliver. "New institutional economics: taking stock, looking ahead" <i>Journal of Economic Literature</i> , 38 (3) (Sept 2000): 595-613.

5 Nov	Capital Budgeting, CIPs, and Equity Issues Group Project: First Deliverable Due	Capital Improvements Programs: Linking Budgeting and Planning by Robert A. Bowyer (1993) PAS Report 442. Chicago, IL: American Planning Association Press. Marlowe, Ch 1 and 2
		Beatley, Timothy. 1988. Equity and Distributional Issues in Infrastructure Planning: A Theoretical Perspective. In <i>Public Infrastructure Planning and Management</i> .
		Lucy, William. 1988. "Equity Planning for Infrastructure." In <i>Public Infrastructure Planning and Management</i> .
10 Nov	Capital Financing	Bartle, Chs 11 and 12
		Marlowe, Chs 5 and 6
		Matzer, John Jr. 1989. "Selecting Financing Options." In Capital Projects.
		Dowall and Whittington, Ch 9
		King, L. M. 1995. "Operating and Capital budget Reform in Minnesota: Managing Public Finances Like the Future Matters" <i>Government Finance Review</i> . February, 1995.
12 Nov	User Fees and Special	(excerpt from Aronson and Schwartz, Ch 12)
	Districts	Dowall and Whittington, Chs 6 and 7
		Mitzany and Manatt. 2002. What's So Special About Special Districts? Sacramento: California Senate Local Government Committee. www.csda.net Click on "about special districts"
		Little Hoover Commission. Special Districts: Relics of the Past or Resources for the Future? Sacramento, CA. 2000.
17 Nov	Bond Finance	Marlowe, Chs 7 and 8
	Group Project: Second Deliverable Due	Dowall and Whittington, Ch 8
19 Nov	Exactions, Tax Increment Financing, and the Cost of Sprawl	Burchell, R. W., D. Listokin et al. 1994. Chapter 10. "Shared Infrastructure Costs." In Development <i>Impact Assessment Handbook</i> . Wash. D.C.: ULI
		Casella, Sam and Kim, T.J., C.W. Forrest, and K.A. Przypyszny. 1984. "Tax Increment Financing." PAS Report 389. Chicago: American Planning Association.
		Kasowski, Kevin. Feb. 1993. "The costs of sprawl, revisited." PAS Memo. APA.
24 Nov	Public-Private	Marlowe, Ch 4 and 9
	Partnerships and	Bartle, Chs 15 and 16
	Privatization	Osborne and Gaebler. 1992. Reinventing Government. (Ch 3)
		Sclar, Elliot. 2000. <i>You Don't Always Get What You Pay For</i> . Ithaca, NY: Cornell University Press. (Ch 5)
		Warner, Mildred and Amir Hefetz. 2008. "Managing Markets for Public Service: The Role of Mixed Public-Private Delivery of City Services" <i>Public Administration Review</i> 2008 (Jan/Feb): 155-166.
1 Dec	Presentations	

Group Project: Third Deliverable Due

3 Dec	Discounting and Cost-	(excerpt from Aronson and Schwartz, Ch 6)
	Benefit Analysis	Heikkila, Eric. 2000. Understanding Cost-Benefit Analysis. In <i>The Economics of Planning</i> . Pp. 171-193.
		Dorfman, Robert. 1993. "An Introduction to Benefit-Cost Analysis." In <i>Economics of the Environment</i> . NY: W.W. Norton and Co.
		Porter, Theodore. <i>Trust in Numbers</i> . Princeton University Press. 1995. (Ch 7)
8 Dec	Public-Private	Marlowe, Ch 4
	Partnerships and Private Project Finance	Sagalyn, Lynne. Public/Private Development: Lessons from History, Research and Practice. <i>Journal of the American Planning Association</i> 2007, 23 (1): 7-22.
		Boarnet, Marlon and Joseph Dimento. Private Sector's Role in Highway Finance: Lessons from SR 91. Access, 25 (Fall, 2004): 26-31.
		FitchRatings. Global Infrastructure & Project Finance Outlook: Special Report, February 2009. February 18, 2009.
		Guasch, Luis. 2004. <i>Granting and Renegotiating Infrastructure Concessions:</i> Doing it Right. World Bank. (Preface, and Chapters 1-3) http://elibrary.worldbank.org/doi/pdf/10.1596/0-8213-5792-1
		Spiller, Pablo. 2008. "An Institutional Theory of Public Contracts: Regulatory Implications." Working Paper 14152. National Bureau of Economic Research. http://www.nber.org/papers/w14152
		Spiller, Pablo. 1996. "Institutions and Commitment." <i>Industrial and Corporate Change</i> , 5 (2) 1996: 421-452
10 Dec	Presentations	Dowall and Whittington, Ch 11
	Group Project: Fourth Deliverable Due	
	Exam Review	
17 Dec	Final Exam	Thursday, December 17, 2014, GLD 100