Quantitative Methods of Policy Analysis

Spring 2013

Lecture: M/W 5:00-6:15pm Class: Muenzinger D144

Lecturer: Jason M. Vogel

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Course website: http://sciencepolicy.colorado.edu/students/envs 5120/

Course Description & Objectives:

This is a graduate level course in the Environmental Studies Program at the University of Colorado. This seminar will provide students with practical knowledge and skill sets that are commonly used in the professional world of policymaking and policy analysis. Some of this practical knowledge includes: how governments and other key participants in the policy process are structured, which mandates drive federal policy analysis, basic economic principles, and government budgeting. Some of these practical skill sets include: basic research design, cost-benefit analysis, risk assessment, and survey design and sampling. A crosscutting emphasis throughout the course will be on increasing the economy and effectiveness of students' writing, speaking, and presenting of technical information to decision makers.

Upon completion of this course, students should communicate more thoughtfully and efficiently, will be more knowledgeable about practical policy analysis methods that can serve them in a variety of professional roles, and should understand the basic advantages and flaws of different methodologies commonly used in professional policy practice.

Course Format and Organization:

The course will mix a lecture and seminar format with significant time each period for class discussion. The readings for the class are important and you are expected to have done all of the readings for each day prior to that class period. Based on those readings, you will be expected to come to each class with at least two questions for stimulating discussion – which you will turn in each class period. All readings will be posted on the class website as a adobe acrobat file or a URL, except for the course textbooks:

Gupta, Dipak K. 2011. *Analyzing Public Policy: Concepts, Tools and Techniques*. Congressional Quarterly Press: Washington, D.C.

Strunk, William, Jr. and E.B. White. 2000. *The Elements of Style*. Longman: New York.

The formal course requirements include periodic assignments, a mid-term exam, class participation, and a final exam. Your grade will be determined as follows: 20% periodic assignments, 20% mid-term exam, 30% in class participation, and 30% final exam.

Disability:

If you qualify for accommodations because of a disability, please submit a letter from Disability Services in a timely manner so that your needs can be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, http://www.colorado.edu/disabilityservices

Religious Observances:

Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. You must contact me at least one week prior to any assignment due and at least two week prior to any scheduled exam to work out details. See full details on the campus policy at http://www.colorado.edu/policies/fac_relig.html

Course Schedule:

DATE	TOPIC	READINGS and ASSIGNMENTS
Jan 14	Introduction to	Course syllabus
Mon	course	Hammond, J. et al., 1998. Thinking about the hidden traps in
		decision making. Harvard Business Review.
Jan 16	Decision Methods	WUCA 2010
Wed	Survey	http://www.wucaonline.org/assets/pdf/pubs_whitepaper_012110.
		<u>pdf</u>
		Handout Assignment #1
Jan 21	NO CLASS	
Mon		
Jan 23	TBD – remote	
Wed	class?	
Jan 28	Vulnerability	Vogel and Smith 2010
Mon	Analyses in the	http://water.epa.gov/scitech/climatechange/upload/Climate-
	Water Sector	Change-Vulnerability-Assessments-Sept-2010.pdf
		Vogel et al 2011
		http://ofmpub.epa.gov/eims/eimscomm.getfile?p_download_id=5 01095
		01073

Jan 30 Wed	Research Design	Gupta Ch.5 Selections from: Eugene Bardach. 2000. A Practical Guide for Policy Analysis: The Eightfold Path to More Effective Problem Solving
E 1 4	NO GLAGG	Handout Assignment #2
Feb 4 Mon	NO CLASS	
Feb 6	Communication:	Strunk & White (yes the entire book, but especially Ch 2)
Wed	writing	The Modern Essay Paradigm
		The Modern Essay Paradigm Worksheet
		Young and Quinn 'The Policy Brief'
		http://www.policy.hu/ipf/fel-pubs/samples/PolicyBrief-
		described.pdf
Feb 11	Communication:	Gupta Ch.9
Mon	graphics	Selections from E.R. Tufte, 2001. The Visual Display of
		Quantitative Information. Graphic Press: Cheshire, Connecticut
		Handout Assignment #3
Feb 13	Government	Selections from W.G. Wells. 1996. Working With Congress.
Wed	structure	American Association for the Advancement of Science: New
		York.
Feb 18	NO CLASS	
Mon		
Feb 20	Budget process	M. Weinberg. 2000. Understanding the Federal Budget Process.
Wed		Quick Guide for Community Forestry Activists. American
		Forests: Washington, D.C.
		http://www.communitiescommittee.org/pdfs/fed_budget.pdf
		M. Enzer. 1999. The Federal Appropriations Process. Quick
		Guide for Community Forestry Activists. American Forests:
		Washington, D.C.
		http://www.communitiescommittee.org/pdfs/fed_approps.pdf
Feb 25	More budgeting	Selections from A. Wildavsky and N. Caiden. 2004. <i>The New</i>
Mon		Politics of the Budgetary Process. Pearson Longman: New York.
Feb 27	Basic statistics	Gupta Ch.6
Wed		Selections from Essential Statistics for Public Managers and
		Policy Analysts Chapters 1, 2, 3, 6, 7
		Handout Assignment #4
Mar 4	More basic	Selections from Essential Statistics for Public Managers and
Mon	statistics	Policy Analysts Chapters 9, 11, 12
Mar 6	MIDTERM	
Wed	EXAM	
Mar 11	Basic economic	Gupta Ch.3
Mon		Selections from M. Friedman. 1966. Essays in Positive
IVIOII	principles	<u> </u>
		Economics. Phoenix Books: Chicago.

Mar 13	Cost-benefit	Gupta Ch.14
Wed	analysis:	Selections from D.N. Ammons. 2009. <i>Tools for Decision</i>
1,100	fundamentals	Making: A Practical Guide for Local Government. CQ Press:
	Tanaanionais	Washington, D.C.
Mar 18	Cost-benefit	Treasury Board of Canada Secretariat. 2007. Canadian Cost-
Mon	analysis:	Benefit Analysis Guide: Regulatory Proposals.
	discounting and	Stratus Essay
	valuation of non-	Handout Assignment #5
	market goods	
Mar 20	Cost-benefit	Stratus Consulting 2009 – Philadelphia case study
Wed	analysis: triple	TBD – possible guest speaker
	bottom line	
Mar 25	SPRING	Go have fun!
Mon	BREAK!!!	
Mar 27	SPRING	Go have fun!
Wed	BREAK!!!	
Apr 1	Regulatory process	OMB Watch. Background on the Rulemaking Process.
Mon		Washington, D.C.
		OMB Watch. Flowchart of Notice-and-Comment Rulemaking.
		Washington, D.C.
		Handout Assignment #6
Apr 3	Policy analysis	Selections from OMB Watch website.
Wed	regulations	
Apr 8	Risk analysis:	M. Saner. 2005. Information Brief on International Risk
Mon	fundamentals	Management: To Support the Discussion on the Government
		Directive on Risk Management. Institute on Governance: Ottawa.
A 10	D: 1 1 :	Handout Assignment #7
Apr 10 Wed	Risk analysis:	UKCIP 2003
wed	climate change	Broadleaf Capital International and Marsden Jacob Associates.
	examples	2006. Climate Change Impacts and Risk Management: A Guide for Business and Government. Australian Greenhouse Office:
		Canberra
Apr 15	GIS and Excel	TBD – possible guest speaker
Mon	Modeling	GeoSpatial Revolution:
1,1011	modeling	http://geospatialrevolution.psu.edu/episode1
Apr 17	Decision trees and	Gupta Ch.13
Wed	game theory	ı
Apr 22	Survey design and	Gupta Ch.8
Mon	sampling	E. Taylor-Powell. 1998. Sampling. University of Wisconsin
		Cooperative Extension.
		http://learningstore.uwex.edu/assets/pdfs/G3658-3.PDF
		E. Taylor-Powell. 1998. Questionnaire Design: Asking Questions
		with a Purpose. University of Washington Cooperative
		Extension.
		http://learningstore.uwex.edu/assets/pdfs/g3658-2.pdf
		Handout Assignment #8

Apr 24	Interviews and	Selections from GAO. 1991. Using Structured Interviewing
Wed	expert elicitation	Techniques. U.S. Government Printing Office: Washington, D.C.
Apr 29	Natural Resource	TBD – possible guest speaker
Mon	Damage	
	Assessments	
May 1	Content analysis	GAO. 1996. Content Analysis: A Methodology for Structuring
Wed		and Analyzing Written Material. U.S. Government Printing
		Office: Washington, D.C.
May 6	FINAL EXAM	7:30 pm – 10:00 pm
Mon		