

## POS 659: Environmental Policy

Dr. Zachary A. Smith  
Northern Arizona University  
Spring 2007

Office Hours: Tuesday 3 – 5:00 or by appointment. Give me a call at 523-7020. If I am not in my office leave a message with the numbers where I can reach you and I will call you as soon as I can. Or email me anytime at Zachary.smith@nau.edu

Office Location: SBS 203

Course Prerequisites: Graduate Standing

Course Description: This course will examine the policy making process in environmental policy in the United States and the global implications for that policy. Topics to be covered will include air and water policy, energy production and regulation, federal land policy, and problems associated with food and agricultural production. This is a central class for those doing environmental and natural resources policy. The course may be repeated once for credit.

Course Objectives: To familiarize the student with policy and the policy formation process in each of the areas indicated above and to provide students with substantive expertise necessary to analyze environmental policy proposals and the political considerations that produced those proposals and the long and short term consequences of proposals.

My Expectations: I expect that you will do all the reading prior to coming to class, that you will be an active and regular participant in class and Vista discussions, that you will identify your areas of weakness and independently work to seek out the information you need to strengthen those areas, that you will be curious and inquisitive and that you will work hard. This is a demanding class – although no more demanding as similar classes at the best universities in the country. You will find easier classes or classes where you don't actually have to do the reading. If that sounds attractive to you – then you don't want to be in this class. My environment grad students have enjoyed 100% placement success – because they were 100% prepared for the job market – by being their best. If that sounds good to you then I want to work with you and help you achieve your goals.

Course Structure and Approach:

There are three – related - writing requirements for the class. The first written assignment is a review essay--in the form of an annotated bibliography--on a subject of your choosing dealing with environmental or natural resources policy. This bibliography should include at least 15 books and articles and should tell the reader what the work is about (the theme etc.) and what sets it apart from other works in the field. These review essays can not be any longer than 7 double spaced pages in length and will be due at various times beginning the second week of

class. You are to post your review essay to the class at least 4 days prior to the class session when you will present your essay. Students in the class are to read the essays and comment on the essay in the VISTA (see below). The author of the essay will begin his or her presentation by summarizing the comments the other students made to the author about his or her essay.

The second written assignment will be to write a research paper. Paper topics must be approved by me in advance and will be individually tailored to the professional needs of each student. Although it is not required I would expect your review essay to be a part of what becomes your research paper.

Students may choose to write a grant proposal and identify potential sources of funding using the foundation directories (available in the library) and the computerized grant data base available in the NAU Grants and Contracts office. (On a separate sheet identify a minimum of 10 possible funding sources with a sentence or two describing why you think this source would be interested in funding your research.) (Anticipate using the stuff you put into your bibliography for your grant proposal--killing two birds.) Your grant proposal will follow the guidelines you will find in Program Planning and Proposal Writing-Expanded Version available from the Grantsmanship Center. See Publications, Grantsmanship Center, PO BOX 17220, Los Angeles, CA 90017. <http://www.tgci.com> / order code XPP - there are many excellent publication here.

Post your Research paper in the “turn it in” box – you get there either from the link on the home page or from the link under course content.

For your third written assignment students will be required to write and distribute to the class one book review of a book that has been approved by me in advance (taken from the syllabus--ordinarily). This actually should not be a burdensome assignment as I suggest you use books that you also use for the review essay you will write for the class. **Your book reviews should summarize the reading, identify the authors goals and discuss the achievement of those goals, discuss the appropriateness and success of the methodology used, and compare the reading with other works in the field (this is essential of you want an "A" on your review).** Four days prior to the class session during which you will discuss your book review you should post your review in WEB-CT (see below). This is expected to be a professional review and should be of the same quality as you find in professional journals. I will read drafts of your review if you bring them to me during office hours in hard copy double spaced. I can not read drafts of your papers but I will go over your paper outlines. If your objective in the class is to produce a paper that is worthy of publication in a professional journal let me know in advance and we will work toward that goal. Although you will not get additional credit for aiming for publication I will have higher expectations from the students who pursue this option.

Posting bibliographic essays and book reviews. **Everyone in the class is required to read the posted reviews BEFORE coming to class.** You will find a discussion box labeled “Post Reviews for week --- here” in WebCT-Vista. Post your Book and Lit reviews in the discussion page for the appropriate week – AT THE SAME TIME post a copy under course content link (or

on the home page – they both take you to “turn it in”. (You will post these assignments in two places.) Everyone will be tested on this material on the final. The rest of the class is required to read and comment on these posted reviews before coming to the next class session – comment in the same discussion box – and the review writer is required to read the questions and comments posted by the other students in the class and make appropriate replies. When the class meets we will discuss the book and article reviews posted for that week.

Schedule for posting bibliographic essays:

You may post your bibliographic essay early if you like – but do not post it later than the date indicated below (depending on the first letter of your last name).

Last Name	A-D	E-I	J-M	N-Q	R-T	U-W	X-Z
Book Rev.Due	<u>2/12</u>	<u>2/26</u>	<u>3/12</u>	<u>3/26</u>	<u>4/9</u>	<u>4/23</u>	<u>4/23</u>

Schedule for posting book reviews:

You may post your book review early if you like – but do not post it later than the date indicated below (depending on the first letter of your last name).

Last Name	A-D	E-I	J-M	N-Q	R-T	U-W	X-Z
Book Rev.Due	<u>4/23</u>	<u>4/9</u>	<u>3/26</u>	<u>4/9</u>	<u>3/12</u>	<u>2/12</u>	<u>2/12</u>

Grading: Grades will be based on your participation, the final and papers as follows: Written assignments:33.3%; Participation 33.3%;Final Exam: 33.3%

The final exam will cover all the required reading, the review essays produced by the other members of the class and the book reviews written by the other members of the class. I suggest you keep a journal which combines and summarizes all the reading and other materials in the class – students who do this and enter all the material in their journals will have no difficulty doing well on the final.

Required Reading: Wall Street Journal – In addition you are **required to take and read every day the Wall Street Journal**. Each week each of you will post one question from the WSJ in the discussion page (there is a place to do this for each week) and each week you will be responsible for answering two questions from those that are posted by other students. In addition you are required to COMMENT on the email posting of at LEAST one other student. Finally reply to people who

post comments to your questions. Your WSJ questions should deal with the environment or regulations or government. This would include regulatory policy, energy, the role of government etc. Questions may come from any part of the paper – be sure to look carefully at the op-ed pages for question material. You may take your questions from any edition of the WSJ but be sure to put in your question the date and page of the paper so that other students can find the article your questions refer to. Go to this page to subscribe:

[https://users2.wsj.com/wsjreg/do/loadStudentReg?call=R\\_ST\\_EDU&KEY\\_EXT\\_CODE=77ABBD](https://users2.wsj.com/wsjreg/do/loadStudentReg?call=R_ST_EDU&KEY_EXT_CODE=77ABBD)

This is not optional. It is part of your participation grade.

Books.

*The End of the Wild* by Stephen M. Meyer, September 2006, MIT Press

*Globalization and the World Ocean*, by Peter Jacques, ISBN: 0759105855, 2006, AltaMira Press

*Global Environmental Politics* (4<sup>th</sup> edition) by Pamela S. Chasek, et. Al. ISBN: 0813343321, 2006 Westview Press

*The New Environmental Regulation* by Daniel J. Fiorino, MIT Press, September 2006 (PAPER)

*Democracy's Dilemma: Environment, Social Equity, and the Global Economy*, by Robert C. Paehlke, MIT Press October 2004 (PAPER)

*The Environmental Endgame: Mainstream Economics, Ecological Disaster, and Human Survival*, by Robert L. Nadeau, Rutgers 2006, ISBN 0-8135-3812-2

*Environment, Inc.: From Grassroots to Beltway*, by Christopher J. Bosso, 2005 University Press of Kansas Paper ISBN 0-7006-1368-4

Zachary A. Smith, *The Environmental Policy Paradox*, 4<sup>th</sup> edition, Prentice Hall, 2004

**Other Readings Found under “Course Content” >>> “Additional readings” on Vista include....**

*Federalism and Environmental Policy Trust and the Politics of Implementations*, Second Edition, by Denise Scheberle, Georgetown University Press 2004 - Chapter One - on reserve

*Global Spin: The Corporate Assault on Environmentalism*

by Sharon Beder 1998, Chelsea Green Publishing, chapter 1 and 2

*The Path to Power* by Robert A. Caro Vintage Press, Vintage; Reissue edition (February 17, 1990) Chapter 22 "The Sad Irons" pp. 502-515.

ENVIRONMENTAL POLITICS AND POLICY IN THE WEST, by Zachary A. Smith and John Freemuth (Editors) University Press of Colorado (forthcoming).

Environmental And Natural Resource Economics: A Contemporary Approach. (Harris 2005  
Envl and Nat Res Econs)

*Valuing the Earth: Economics Ecology, and Ethics*, Harman E. Daly and Kenneth N. Townsend (editors), MIT Press 1993. Chapters 2, 3, & 17

*Command of the Waters : Iron Triangles, Federal Water Development, and Indian Water*  
Daniel McCool University of Arizona Press, 1994. Chapter 8 (Indian Implementation)

Stone, Christopher, 'Should Trees Have Standing? Toward Legal Rights for Natural Objects,' 45  
*S. Cal. L. Rev.* 450 (1972)

Sinsheimer, Robert, 1978. "The Presumptions of Science". *Daedalus* (107:2), pp. 23-36.

Daly, H. "Sustainable Growth: An Impossibility Theorem." In *Development*, 3/4 (1990): 45-47.

Harden, Garrett, 1968, "The Tragedy of the Commons", *Science*, 162: 1243-8.

Daly, H. E., and J. B. Cobb, Jr. 1989. *For the Common Good: Redirecting the Economy toward Community, the Environment and a Sustainable Future*. (pp. 35-43) Boston: Beacon Press

*Ocean Politics and Policy : A Reference Handbook* (Contemporary World Issues), Peter Jacques and Zachary A. Smith, (Santa Barbara, CA: ABC-CLIO Press, 2003) Chapters 1 and 2

*Freshwater Issues : A Reference Handbook* (Contemporary World Issues) Grenetta Thomassey Fink and Zachary A. Smith (Santa Barbara, CA: ABC-CLIO Press, 2003) Chapter 2.

*The National Environmental Policy Act: Judicial Misconstruction, Legislative Indifference & Executive Neglect*, Matt Lindstrom and Zachary A. Smith, (College Station, TX: Texas A & M University Press, 2001). Chapters 1 and 7.

*Public Policy and Politics in Arizona*, Third Edition. (Editor), (Westport, CT: Praeger, 2002). Chapter 15.

You will present your research papers the last two weeks of class. Papers are due on the day you give your presentation – usually the last day of class. Post them early if possible.

I strongly suggest you outline your reading. That will improve your discussion performance as well as assist you when preparing for the exam at the end of the semester.

The discussions in the seminar will be conducted by the students themselves under the guidance of the instructor. This will be done in several ways. Each week one or two students will be given responsibility for leading the discussion of the reading for that week -- they will be responsible for preparing discussion questions to be used in class. In addition the students responsible for that weeks assignments will post two discussion questions in WEB-CT (these questions will begin the week before we discuss the given reading and will be different questions from those introduced in class). All students are responsible for answering the general questions posted in WEB-CT. In addition each student is responsible for commenting on the answers to questions provided by at least one other student -- again by posting your evaluation of your fellow student's response to all members of the class in WEB-CT. This isn't as difficult as it sounds. If I am the leader that week I post two questions (not ones I will be using in class later). You answer them. After several class members have posted their answers you read them all and pick one to respond, comment, praise, evaluate on and post that comment to the class members.)

Weekly reading assignments.

Week One:

*The Path to Power* by Robert A. Caro Vintage Press, Vintage; Reissue edition (February 17, 1990) Chapter 22 "The Sad Irons" pp. 502-515. and Zachary A. Smith, *The Environmental Policy Paradox*, 4<sup>th</sup> edition, Prentice Hall, 2004, Part One.

Week Two:

Daly, H. E., and J. B. Cobb, Jr. 1989. *For the Common Good: Redirecting the Economy toward Community, the Environment and a Sustainable Future*. (pp. 35-43) Boston: Beacon Press;  
Sinsheimer, Robert, 1978. "The Presumptions of Science". *Daedalus* (107:2), pp. 23-36.;  
Valuing the Earth: Economics Ecology, and Ethics, Harman E. Daly and Kenneth N. Townsend (editors), MIT Press 1993. Chapters 2, 3, & 17; Daly, H. "Sustainable Growth: An Impossibility Theorem." In *Development*, 3/4 (1990): 45-47.; Harden, Garrett, 1968, "The Tragedy of the Commons", *Science*, 162: 1243-8.; Stone, Christopher, 'Should Trees Have Standing? Toward Legal Rights for Natural Objects,' 45 *S. Cal. L. Rev.* 450 (1972).

Week Three:

*Environment, Inc.: From Grassroots to Beltway*, by Christopher J. Bosso, 2005  
University Press of Kansas Paper ISBN 0-7006-1368-4; *Global Spin: The Corporate Assault on Environmentalism* by Sharon Beder 1998, Chelsea Green Publishing, chapter 1 and 2.

Week Four:

Zachary A. Smith, *The Environmental Policy Paradox*, 4<sup>th</sup> edition, Prentice Hall, 2004, Part Two.; *The National Environmental Policy Act: Judicial Misconstruction, Legislative Indifference & Executive Neglect*, Matt Lindstrom and Zachary A. Smith, (College Station, TX: Texas A & M University Press, 2001). Chapters 1 and 7.

Week Five:

*The New Environmental Regulation* by Daniel J. Fiorino, MIT Press, September 2006

Week Six:

ENVIRONMENTAL POLITICS AND POLICY IN THE WEST, by Zachary A. Smith and John Freemuth (Editors) University Press of Colorado (forthcoming).

Week Seven:

*Federalism and Environmental Policy Trust and the Politics of Implementations*, Second Edition, by Denise Scheberle, Goergetown University Press 2004 - Chapter One.; Public Policy and Politics in Arizona, Third Edition. (Editor), (Westport, CT: Praeger, 2002). Chapter 15.

Week Eight:

*Environmental And Natural Resource Economics: A Contemporary Approach*. (Harris 2005 Envl and Nat Res Econs).

Week Nine:

*The Environmental Endgame: Mainstream Economics, Ecological Disaster, and Human Survival*, by Robert L. Nadeau, Rutgers 2006, ISBN 0-8135-3812-2

Week Ten:

*Freshwater Issues : A Reference Handbook* (Contemporary World Issues) Grenetta Thomassey Fink and Zachary A. Smith (Santa Barbara, CA: ABC-CLIO Press, 2003) Chapter 2.; *Command of the Waters : Iron Triangles, Federal Water Development, and Indian Water*, by Daniel McCool University of Arizona Press, 1994. Chapter 8 (Indian Implementation).

Week Eleven:

*The End of the Wild* by Stephen M. Meyer, September 2006, MIT Press.

Week Twelve:

*Globalization and the World Ocean*, by Peter Jacques, ISBN: 0759105855, 2006, AltaMira Press; *Ocean Politics and Policy : A Reference Handbook* (Contemporary World

Issues) with- Peter Jacques and Zachary A. Smith, (Santa Barbara, CA: ABC-CLIO Press, 2003) Chapters 1 and 2

Week Thirteen:

*Global Environmental Politics* (4<sup>th</sup> edition) by Pamela S. Chasek, et. Al. ISBN: 0813343321, 2006 Westview Press.

Week Fourteen:

*Democracy's Dilemma: Environment, Social Equity, and the Global Economy*, by Robert C. Paehlke, MIT Press October 2004.

The following readings have been compiled for your convenience and as a starting point for your book and other reviews. This is not a required reading list.

### I. The Policy Environment in Environmental Policy

- actors, incentives, history and the policy process

Catherine Albanese, Nature Religion in America: From the Algonkian Indians to the New Age (Chicago: University of Chicago Press, 1990).

Anderson, Terry and Donald L. Leal, Free Market Environmentalism, (Pacific Research Institute, 1991).

Bacot, A. Hunter, et.al. "A Preliminary Analysis Of Environmental Management In The United States" Public administration quarterly Winter 1996 v 19 n 4 p.389

Bennett, Olivia, Greenwar: Environment and Conflict, (Panos Institutie, 1991.)

Bilsky, L. J., Historical Ecology: Essays on Environment and Social Change (Port Washington, NY: Kennikat Press, 1980).

Bramwell, A., Ecology in the 20th Century: A History (New Haven, Ct.: Yale University Press, 1989).

Christopher J. Bosso, Pesticides and Politics, (Pittsburgh: University of Pittsburgh Press, 1987).

Lynton K. Caldwell, "Environmental Impact Analysis: Origins, Evolutions, and Future Direction," Policy Studies Review, Vol. 8, No. 1 (Autumn 1988), pp. 75-83.

Lynton Keith Caldwell, The National Environmental Policy Act: An Agenda for the Future ISBN: 0253334446 (Indiana University Press, December 1998).

William Cronon (Editor) Uncommon Ground: Toward Reinventing Nature ISBN: 0641003846



(Norton, Ww September 1995).

Dunlap, T., Scientists, Citizens, and Public Policy (Princeton, N.J.: Princeton University Press, 1981).

Robert F. Durant, When Government Regulates Itself, (Knoxville: The University of Tennessee Press, 1985).

George C. Eads and Michael Fix, Relief or Reform, (Washington, D.C.: The Urban Institute Press, 1984).

Barbara Epstein, Political Protest and Cultural Revolution: Nonviolent Direct Action in the 1970s and 1980s (Berkeley: University of California Press, 1991).

Christopher H. Foreman, The Promise and Peril of Environmental Justice ISBN: 0815728786 (Brookings Institution Press; July 1998).

Stephen Fox (John Muir and His Legacy: The American Conservation Movement [Boston: Little, Brown, 1981]).

Gans, Herbert J., Deciding What's News: A Study of CBS Evening News, NBC Nightly News, Newsweek, and Time. NY: Vintage Books, Division of Random House, 1980.

Goudie, A., The Human Impact on the Natural Environment (Cambridge, Ma: MIT Press, 1986).

Graham, J. D., ed., Harnessing Science for Environmental Regulation (New York: Praeger, 1991).

Greve, Michael S., and Fred L. Smith, Environmental Politics, (Praeger Publishers, 1992.)

Thomas More Hoban and Richard Oliver Brooks, Green Justice: The Environment and the Courts, (Boulder: Westview, 1987).

Hadden, S. G., A Citizens Right to Know: Risk Communication and Public Policy (Boulder, CO.: Westview, 1989).

Hammitt, James, Probability is All we Have: Uncertainties, Delays, and Environmental Policy Making (New York: Garland Publishing, 1990).

Herman, Edward S., Beyond Hypocrisy: Decoding the News in an Age of Propaganda, Boston, MA: South End Press, 1992.

Huth, H., Nature and the American: Three Centuries of Changing Attitudes (Lincoln: University of Nebraska Press, 1972).

Lacey, M. J., ed., Government and Environmental Politics :Essays on Historical Developments Since World War Two (Baltimore, Maryland: Johns Hopkins University Press, 1991).

Landy, M. and M. Roberts and S. Thomas, The Environmental Protection Agency: Asking the Wrong Questions (New York: Oxford University Press, 1990).

Jonathan Lash, Katherine Gillman, and David Sheridan, A Season of Spoils, (New York: Pantheon Books, 1984). (Early critique of Reagan administration.)

Philip Lowe and Jane Goyder, Environmental Groups in Politics (George Allen and Unwin, 1983), p. 15.

Luten, D. B., "Ecological Optimism in the Social Sciences," American Behavioral Scientist Vol. 24 (September/October) 1980, pp. 125-152.

Christopher Manes, Green Rage: Radical Environmentalism and the Unmaking of Civilization (Boston: Little, Brown, 1990).

Dean E. Mann, ed., Environmental Policy Formation, (Lexington: D. C. Heath and Company, 1981).

Richard D. Morgenstern, ed. Economic analyses at EPA: assessing regulatory impact. Resources For The Future. 1997.

Roderick Nash, ed., Environment and Americans, (New York: Holt, Rinehart and Winston, 1972).

Roderick F. Nash, American Environmentalism: Readings in the History of Conservation, (New York: McGraw-Hill, Inc., 1990).

Odum, H. T., Environment, Power, and Society (New York: Wiley-Interscience, 1971).

Paehlke, Robert and Douglas Torgerson, eds., Managing Leviathan: Environmental Politics and the Administrative State (Peterborough, Ontario: Broadview, 1990).

Paehlke, Robert, Environmentalism and the Future of Progressive Politics (New Haven: Yale University Press, 1989).

Passmore, J., Man's Responsibility for Nature: Ecological Problems and Western Traditions (New York: Charles Scribners' Sons, 1974).

Mark R. Powell, Science at EPA: Information in the Regulatory Process ISBN: 1891853007 (Resources for the Future, September 1999).

Susan Rose-Ackerman, Controlling environmental policy : the limits of public law in Germany and the United States (New Haven : Yale University Press, 1995).

Jerome C. Rose, ed., Legal Foundations of Environmental Planning, (New Brunswick: Center for Urban Policy Research, 1974).

Scarce, R., Eco-Warriors: Understanding the Radical Environmental Movement (Chicago: Noble Press, 1990).

Victor Scheffer, The Shaping of Environmentalism in America (Seattle: University of Washington Press, 1991).

Thomas Schoenbaum and Ronald Rosenberg, Environmental Policy Law, 2nd. ed. (Westbury, NY.: Foundation Press, 1991), ch. 5.

V. Kerry Smith, ed., Scarcity and Growth Reconsidered, (Washington, D. C.: Resources for the Future, 1979).

V. Kerry Smith, "A Theoretical Analysis of the Green Lobby," America Political Science Review 79 (1984), pp. 137-47.

Zachary Smith, "Management Options During Periods of Fiscal Constraint: Mobilizing Interest Groups" in Policy Studies Review, Vol. 7 No. 2 (November 1987).

Christopher D. Stone, Should Trees Have Legal Standing, (Los Altos: William Kaufmann, Inc., 1974)

Douglas Strong, Dreamers and Defenders: American Conservationists (Lincoln: University of Nebraska Press, 1988).

Serge Taylor, Making Bureaucracies Think, (Stanford: Stanford University Press, 1984).

Tolba, M.K., Saving Our Planet, (Chapman and Hall, 1992).

Trzyna, Thaddeus, World Directory of Environmental Organizations, (California Institute of Public Affairs, the Sierra Club, and the International Union for Conservation of Nature and Natural Resources, 1992).

Vayda, A. P., ed. Environment and Cultural Behavior: Ecological Studies in Cultural

Anthropology (Garden City, N.Y.: Natural History Press).

Weiner, D. R., Models of Nature: Conservation, Ecology, and Cultural Revolution (Bloomington: Indiana University Press, 1988).

Lettie Wenner, One Environment Under Law (Pacific Palisades, CA: Goodyear, 1976), Chs. 4 and 5.

Wise, Charles and Rosemary O'Leary, "Intergovernmental Relations and Federalism in Environmental Management and Policy: The Role of the Courts" Public administration review MAR 01 1997 v 57 n 2 p.150

Worster, D., ed., The Ends of Earth: Peerspectives on Modern Environmental History (New York: Cambridge University Press, 1988).

Bruce Yandle, The Political Limits of Environmental Regulations, (New York: Quorum Books, 1989).

Yearley, Steven, The Green Case, (Unwin Hyman Academic, 1991).

Oran R. Young, Natural Resources and the State, (Berkeley: University of California Press, 1981).

## II. Ecology and Common Pool Resource Management Problems

[the common pool problem and implications for environmental policy. Models of environmental control (e.g. markets vs. control and command enforcement) and the relationship between ecology, economics and environmental policy.]

Bennett, J. W., The Ecological Transition: Cultural Anthropology and Human Adaptation (Elmsford, N.Y.: Pergamon, 1976).

Kenneth Boulding, "Economics as a Moral Science", Vol. 59 American Economic Review (March 1969).

Kenneth Boulding, "The Economics of the Coming Spaceship Earth", in Herman Daly, Economics, Ecology, Ethics also in Environmental Quality in a Growing Economy, (Johns Hopkins, 1966).

Bromley, Daniel W., Making the Commons Work, (ICS Press, 1992).

Butzer, K. W., Early Hydraulic Civilization in Egypt: A Study in Cultural Ecology (Chicago: University of Chicago Press, 1976).

Cairncross, Frances, Costing the Earth, (Harvard Business School Press, 1992).

Costanza, Robert, Ecological Economics, (Columbia University Press, 1991).

Daly, H.E. and J. Cobb, For the Common Good: Redirecting the Economy Toward the Community the Environment and a Sustainable Future (Boston: Beacon Press, 1989).

Bill Devall and George Sessions, Deep Ecology: Living as if Nature Mattered ISBN: 0879052473 (Gibbs Smith: November 1986).

Robert Dorfman and Nancy S. Dorfman, eds., Economics of the Environment, (New York: W. W. Norton and Company, Inc., 1972).

Paul B. Downing, Environmental Economics and Policy, (Boston: Little, Brown and Company, 1984).

Fosberg, F. R., ed. Man's Place in the Island Ecosystem (Honolulu: Bishop Museum, 1963).

A. Myrick Freeman III, Robert H. Haveman and Allen V. Kneese, The Economics of Environmental Policy, (New York: John Wiley and Sons, Inc., 1973).

Gaskins, R. H., Environmental Accidents: Personal Injury and Public Responsibility (Philadelphia: Temple University Press, 1989).

Geertz, C., Agricultural Involution: The Process of Ecological Change in Indonesia (Berkeley and Los Angeles: University of California Press, 1971).

David Goetze, "Identifying Appropriate Institutions for Efficient use of Common Pools," Natural Resources Journal, Vol. 27, No. 1, (Winter 1987), pp. 187-200.

Kent Gilbreath, ed., Business and the Environment, (Washington, D.C.: The Conservation Foundation, 1984).

Hall Ross Hulme, Health and the Global Environment, (Polity Press, 1990).

Hahn, R. and G. Hester, "Marketable Permits: Lessons for Theory and Practice," Ecology Law Quarterly Vol. 16 (1989), pp. 361-406.

Ann L. Hiskes and Richard P. Hiskes, Science, Technology, and Policy Decisions, (Boulder: Westview Press, 1986).

Charles Howe, "A Project Benefits and Costs from National and Regional Viewpoints," National

Resources Journal, Vol. 27, No., (Winter 1987), pp. 5-20.

Johnston, R.J., Environmental Problems: Nature, Economy, and State, (Bellhaven Press, 1989).

MacNeill, Jim, Beyond Interdependence, The Meshing of the World's Economy and the Earth's Ecology, (Institute for Research on Public Policy, 1991).

Martinez-Alier, J., Ecological Economics: Energy, Environment, and Society (New York: Basil Blackwell, 1987).

McNeil, W. H., The Human Condition: An Ecological Perspective (Princeton, N.J.: Princeton University Press, 1980).

Mulvaney, D. J. and J. Golson, eds., Aboriginal Man and the Environment (Canberra: Australian National University Press, 1971).

Olwig, Kenneth, Nature's Ideological Landscape (London: George Allen and Unwin, 1984).

William Ophuls, Ecology and the Politics of Scarcity, (San Francisco: W. H. Freeman and Company, 1977).

Ostrom, Elinor, Governing the Commons: The Evolution of Institutions for Collective Action New York: Cambridge University Press, 1991).

Powell, J. M., Environmental Management in Australia, 1788-1914 (Melbourne: Oxford University Press, 1976).

Rees, Judith, Natural Resources: Allocation, Economics and Policy (Routledge, 1990).

Nicholas Georgescu-Roegen, "The Entropy Law and the Economic Problem", in Herman Daly, Economics, Ecology, Ethics.

Mark Sagoff, "Economic Theory and Environmental Law", Vol. 79 Michigan Law Review (June 1981).

Schramm, Gunther, and Warford, Jeremy J., eds. Environmental Management and Economic Development (Baltimore and London: Johns Hopkins University Press, 1989).

Paul Shepard, Man in the Landscape (College Station: Texas A&M Press, 1991).

Robert Sinsheimer, "The Presumptions of Science", in Herman Daly, Economics, Ecology, Ethics

Taylor, P. W., Respect for Nature: A Theory of Environmental Ethics (Princeton, N.J.: Princeton

University Press, 1986).

John Verger, Restoring the Earth (New York: Alfred Knopf, 1985).

Walter Westman, "How Much are Nature's Services Worth", Science, Vol. 197. (Sept. 2, 1977), pp. 961-964.

Wilkinson, R. G., Poverty and Progress: An Ecological Perspective on Economic Development (New York: Praeger, 1973).

### III. Energy Policy

Dudley J. Burton, The Governance of Energy, (New York: Praeger Publishers, 1980).

Campbell, Heather E. "The Politics of Requesting: Strategic Behavior and Public Utility Regulation" Journal of policy analysis and management Summer 1996 v 15 n 3 p.395

Pricing:

Bruce Clary and Michael Kraft, "Impact Assessment and Policy Failure: The Nuclear Waste Policy Act of 1982," Policy Studies Review, Vol 8, No. 1 (Autumn 1988), pp. 105-115.

Congressional Quarterly, Energy Issues, (USA: Congressional Quarterly, Inc., 1982).

Congressional Quarterly, Energy & Environment, (Washington, D. C.: Congressional Quarterly, 1985).

Copp, E. A., Regulating Competition in Oil: Government in the U.S. Refining Industry 1948-1975 (College Station: Texas A & M University Press, 1976).

Joel Darmstadter, Hans H. Landsberg, Herbert C. Morton with Michael C.J. Coda, Energy Today and Tomorrow, (Englewood Cliffs: Prentice Hall, 1983).

David Howard Davis, Energy Politics, (New York: St. Martin's Press, 1982).

Martin D. Ecker, M. D., and Norton J. Bramesco, Radiation, (New York: Random House, 1981).

"Energy" in The Conservation Foundation, State of the Environment: A View Toward the Nineties, (Washington, D.C.: Conservation Foundation, 1987), pp. 234-256.

Daniel Ford, The Cult of the Atom, (New York: Simon and Schuster, 1984).

Philip L. Fradkin, Fallout: An American Nuclear Tragedy, (Tucson: University of Arizona Press, 1989). (Colorado Plateau experience)

John Gever, et. al., Beyond Oil

Louis J. Goodman and Ralph N. Love, eds., Biomass Energy Projects, (New York: Pergamon Press, 1981). (Pacific rim case studies.)

Grubb, Michael, et al., Energy Policies and the Greenhouse Effect, vol. 2, (Dartmouth Publisher, 1991).

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**Some good advise:** I'm told that the most common reason students seek counseling support is because of problems that are related to stress. It's a fact that knowing what stress is and how to reduce it can make your life and tasks much easier and more comfortable. So I have (with the assistance of Dr. Mark Giesecke) developed the following simple list of suggestions designed to help you reduce stress in your life. Please read the list. You might learn something useful.....

Find a regular time to get vigorous exercise – its relaxing.

Get out and enjoy nature and the outdoors (this can be a great way to get exercise).

Get plenty of sleep.

Eat a balanced diet (and don't overload caffeine, sugar or alcohol).

Find a group of friends, a club or an activity you enjoy – something to balance school. Its also good to have a support system – people you can talk to and feel comfortable with – these may come from the same place or maybe not.

Take one thing at a time, learn to delegate and don't be a martyr (learn to say “no” if you don't want to do something). If something doesn't get done it won't be the end of the world.

Take some time to be alone each week (I like to read a book for fun Monday mornings).

Don't blow out on booze or drugs – a temporary wild escape may bring temporary relief from pressure but its temporary, the pressure will still be there when you sober up – and in the long run you'll feel worse. (And if you do the things listed here you'll not feel the need.)

Take mini-breaks often (I work on different subjects for short periods and break for tea to contemplate my navel).

Learn to laugh more, smile to yourself and don't take it too seriously. (In a previous life I sold real estate. In the middle of a big deal when everyone was super uptight I got up from the table and started tap dancing. People looked at me like I was nuts. I kept dancing and explained "we gotta loosen up." I felt better (and that was the point) but everyone else laughed and we put together the deal.)

Counseling and Testing (523-2261) has staff available 24 hours a day (they will page someone for you on the weekend) who want to help you through personal difficulties. Sometimes it's just good to talk to someone. Take advantage of these services. Everyone needs some help once in awhile.

The following announcements are now required to be included in all course outlines:

*NORTHERN ARIZONA UNIVERSITY*  
**POLICY STATEMENTS**

**STUDENT STUDY TIME**

It is the policy of the Arizona Board of Regents that each credit earned in a course represents one hour in class and at least two hours of work outside class each week of the fifteen week semester. That is, for a three credit class it is expected that you will spend at least 6 hours per week doing homework.

**SAFE ENVIRONMENT POLICY**

NAU's Safe Working and Learning Environment Policy seeks to prohibit discrimination and promote the safety of all individuals within the university. The goal of this policy is to prevent the occurrence of discrimination on the basis of sex, race, color, age, national origin, religion, sexual orientation, disability, or veteran status and to prevent sexual harassment, sexual assault or retaliation by anyone at this university.

You may obtain a copy of this policy from the college dean's office. If you have concerns about this policy, it is important that you contact the departmental chair, dean's office, the Office of

Student Life (523-5181), the academic ombudsperson (523-9368), or NAU's Office of Affirmative Action (523-3312).

### **STUDENTS WITH DISABILITIES**

If you have a disability, you can arrange for accommodations by contacting the office of Disability Support Services (DSS) at 523-8773 (voice) 523-6906 (TTY). You are encouraged to provide documentation of the disability to DSS at least 8 weeks prior to the beginning of the semester so arrangements can be made to meet your individual needs. You must register with DSS each semester you are enrolled and wish to use accommodations.

Faculty are not authorized to provide accommodations without prior approval from DSS. Students are encouraged to notify their instructors a minimum of one week in advance of the need for accommodation. Failure to do so may result in a delay in provision of the accommodation.

Concerns may be brought to the attention of the office of Disability Support Services or to the ADA coordinator in the Affirmative Action Office.

### **INSTITUTIONAL REVIEW BOARD**

Any study involving observation of or interaction with human subjects that originates at NAU—including a course project, report, or research paper—must be reviewed and approved by the Institutional Review Board (IRB) for the protection of human subjects in research and research-related activities.

The IRB meets once each month. Proposals must be submitted for review at least fifteen working days before the monthly meeting. You should consult with your course instructor early in the course to ascertain if your project needs to be reviewed by the IRB and/or to secure information or appropriate forms and procedures for the IRB review. Your instructor and department chair or college dean must sign the application for approval by the IRB. The IRB categorizes projects into three levels depending on the nature of the project: exempt from further review, expedited review, or full board review. If the IRB certifies that a project is exempt from further review, you need not resubmit the project for continuing IRB review as long as there are no modifications in the exempted procedures.

A copy of the *IRB Policy and Procedures Manual* is available in each department's administrative office and each college dean's office. If you have questions, contact Carey Conover, Office of Grant and Contract Services, at 523-4889.

### **ACADEMIC INTEGRITY**

The university takes an extremely serious view of violations of academic integrity. As members of the academic community, NAU's administration, faculty, staff and students are dedicated to promoting an atmosphere of honesty and are committed to maintaining the academic integrity essential to the education process. Inherent in this commitment is the belief that academic

dishonesty in all forms violates the basic principles of integrity and impedes learning. Students are therefore responsible for conducting themselves in an academically honest manner.

*Individual students and faculty members are responsible for identifying instances of academic dishonesty. Faculty members then recommend penalties to the department chair or college dean in keeping with the severity of the violation*