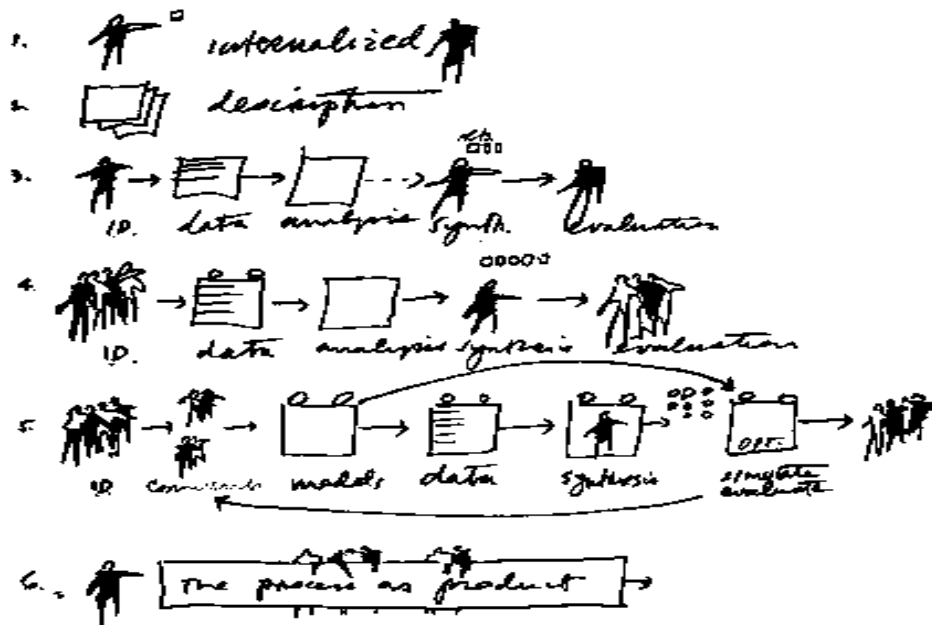


DESIGN PROCESSES: FACTS and Values and Their USES



"The only substitute for informed value judgments are uninformed value judgments."

Davidssohn

"A thing is right when it tends to preserve the integrity, stability, and beauty of the biotic community. It is wrong when it tends otherwise."

Leopold

"For whenever the members of a community speak about their landscape – whenever they name it, or classify it, or tell stories about it- they unthinkingly represent it in ways that are compatible with shared understandings of how, in the fullest sense, they know themselves to occupy it."

Basso

"Most people don't form a self and then lead a life. They are called by a problem, and the self is constructed gradually by their calling."

Brooks

"Most learning is not the result of instruction, it is rather the result of unhampered participation in a meaningful context."

Illich

LA 4/540: Introduction to Landscape Planning Analysis

Instructor: David Hulse

Department of Landscape Architecture School of Architecture and Allied Arts

University of Oregon

Course website: http://ise.uoregon.edu/la440_540.html

COURSE INTENT:

To introduce the student to the various approaches available for use in analyzing and understanding landscapes.

TECHNIQUE:

The course employs lectures, field trips, student projects, and student presentations in exploring different methods of landscape analysis.

GOALS:

To expose students to many methods of landscape analysis, and to show that these are culturally based. To provide hands-on experience with theories, methods and systems of landscape analysis.

Upon completing the course students will be capable of:

- 1) understanding and communicating the potential of a landscape
- 2) determining which of many methods are suited to analyzing a given landscape problem
- 3) using various technologies in the process of land analysis.

READINGS:

Required readings: Volumes I&II in xerox package, cost approximately \$70. **Available at U of O Bookstore 3/30.** Reference list for follow-up reading, use references.
Volume III (optional) is ArcGIS Guide available as pdf. **Not Needed Until 4th week of term.**

Please read first lecture material prior to first class.

REQUIREMENTS/GRADING:

95% attendance, reading completed before lecture, participation	50%
Landscape Analysis Project Presentation (due 5/19, 5/21, 5/26, or 5/28) in-class presentation to include clear and engaging use of words and graphics to communicate in non-jargon terms your chosen method's values, application with both 10m and 100m GIS data to Mt. Pisgah study area; logically compelling critique of method's strengths and weaknesses.	25%
5-10 page double-spaced typed paper justifying conclusions and explaining methodology of landscape analysis project (due 5/28) team paper to be a professional-quality report, i.e. no mis-spellings, no incomplete or nonsense sentences; all figures and tables numbered with captions and referenced in narrative; must include a Table of Contents, Bibliography, appropriate use of sub-headings to aid reader's understanding of report organization, logically coherent explanation of method, its values and application using both 10m and 100m GIS data, map of chosen 100 hectares using both 10m and 100m data, clearly argued critique of method's strengths and weaknesses.	25%

OFFICE HOURS:

Wednesday: 11:00 a.m. - 12:00 noon

Class divides roughly into 3 parts:

1st part	9 lectures -- lectures on Methods, do reading, lab exercises, attend and participate in class discussions
2nd part	4 sessions -- lectures on computer use, readings, in-class computer exercises
3rd part	4 sessions -- student presentation of Landscape Analysis Project and paper describing same

Busy time for students: May 1 – May 28

Anytime you have a question in class, stop me and ask.

The University of Oregon is working to create inclusive learning environments. If there are aspects of the instruction or design of this course that result in barriers to your participation, please notify me as soon as possible. You are also welcome to contact Disability Services in 164 Oregon Hall at 346-1155 or disabsrv@uoregon.edu

LA 4/540: Introduction to Landscape Planning Analysis

Instructor: David Hulse Department of Landscape Architecture
School of Architecture and Allied Arts University of Oregon
Tuesday and Thursday 2:00-4:00 Room 231 Lawrence and
SSIL Computer lab: 442 McKenzie Hall

SCHEDULE:

Tues. 3/31	Lecture 1	"Land Ethics/On the Escape of Tigers"
Thur. 4/2	Lecture 2	"Cultural Methods of Landscape Analysis"
Tues. 4/7	Lecture 3	"Terrain Analysis/Analytic Methods in Geomorphology"
Thur. 4/9	Lecture 4	"Classification Methods of Landscape Analysis"
Tues. 4/14	Lecture 5	"Public Involvement Methods"
Thur. 4/16	Lecture 6a	"Field Methods"/Field Trip to Autzen Footbridge area
Tues. 4/21	Lecture 6b	"Field Methods"/Field Trip to Mt. Pisgah Students assigned to teams for Landscape Analysis Project, Problem Statement handed out
Thur. 4/23	Lecture 7	"Overlay Methods"-Overlay Workshop
Tues. 4/28	Lecture 8	"Carrying Capacity Methods"
Thur. 4/30	Lecture 9	"Modeling Methods"/Student teams choose methods
Tues. 5/5	Lecture 10	"Introduction to Computer-Based Landscape Analysis, Landscape Analysis Project Presentation schedule handed out
Thur. 5/7	Lecture 11	"Characterizing Points, Neighborhoods Part I"
Tues. 5/12	Lecture 12	"Characterizing Neighborhoods Part II"
Thur. 5/14	Lecture 13	GTF Help Session/McK 442 lab
Tues. 5/19	Student Presentation of Landscape Analysis	
Thur. 5/21	Student Presentation of Landscape Analysis	
Tues. 5/26	Student Presentation of Landscape Analysis	
Thur. 5/28	Student Presentation of Landscape Analysis Landscape Analysis Paper Due	

LA 4/540: Introduction to Landscape Planning Analysis

Instructor: David Hulse

Department of Landscape Architecture School of Architecture and Allied Arts
University of Oregon

REQUIRED READINGS PACKET TABLE OF CONTENTS

Lecture I: Introduction; On the Escape of Tigers

Leopold, A., "The Land Pyramid" from *A Sand County Almanac.*, Oxford Univ. Press., Sierra Club Press, 1050 Mills Tower San Francisco, Calif. 94104., 1966.

Shrader-Frechette, K., "Four Land Ethics: An Overview" ., in *The Environmental Professional.*, Vol. 9., pp. 121-132., 1987.

Haddon, W., "On the Escape of Tigers: An Ecologic Note", in Technology Review, May 1970.

Lecture 2 Cultural Methods of Landscape Analysis

Seddon, G., "The Genius Loci and Australian Landscape," in Landscape Australia, vol. 1, No. 2, April 1979. pp. 66-73.

Steinitz, C., Landscape Planning: A History of Influential Ideas, Landscape Architecture Magazine, Washington, D.C. February 2009.

Lecture 3 Analytic Methods in Geomorphology Way's Terrain Analysis

Way, D., Terrain Analysis, Van Nostrand Reinhold Co., New York, 1978, excerpts.

Omernik, J.M. and A.L. Gallant., "Defining Regions for Evaluating Environmental Resources" ., in Global Natural Resource Monitoring and Assessments: Preparing for the 21st Century., Proceedings, Vol.2., Sept. 24-30, 1989, Venice, Italy., ISBN 0-944426-26-3.

Lecture 4 Classification Methods of Landscape Analysis

Forman, R.T.T., "The Ethics of Isolation, the Spread of Disturbance, and Landscape Ecology," Ch. 12 in Landscape Heterogeneity and Disturbance., M. Turner (ed.), Springer-Verlag., 1987.

Lynch, K., *Image of the City*, M.I.T. Press and Harvard University

Press, Cambridge, MA., 1960., excerpts.

University of Wisconsin-Madison Land Information and Computer Graphics Facility.1998.
Environmental Corridors Land Use Planning Guide., Technical series, Technical paper No. 1,
Available online at
<http://www.ruralgis.org/publications/documents/EnvCorr.pdf>

Lecture 5 Public Involvement Methods/ The Delphi Method

Godschalk, D.R., D.W. Parham., D.R. Porter., W.R. Potapchuk., S.W. Schukraft.,
Pulling Together: A Planning and Development Consensus-Building
Manual., Urban Land Institute 625 Indiana Avenue., N.W.
Washington, D.C. 20004-2930., ULI Catalog number P90.,
International Standard Book number 0-87420-758-4. pp 11-60
(On Reserve in AAA Library)

Thrall, G.I. and J.W. McCartney., Keeping The Garbage Out: Using The Delphi
Method for GIS Criteria., in Geo Info Systems., Advanstar
Communications., 859 Willamette St., Eugene, Oregon 97401., January 1991.

Arnstein, Sherry. A Ladder of Citizen Participation, in The City Reader (3rd Ed) R.T.
LeGates and F. Stout eds. Routledge Press London. 2003. pp. 244-255.

Lecture 6 Field Methods

Sedell, J.R. and J.L. Froggatt., Importance of streamside forests to large rivers: The isolation of
the Willamette River, Oregon, U.S.A. from its floodplain by snagging and streamside forest
removal., in Verh. Internat. Verein. Linmol., pp. 1828-1834., December 1984.

Field Trip Guide to Mt. Pisgah Area
Eugene, Oregon

Lecture 7 Overlay Methods of Landscape Analysis

McHarg, I., Design with Nature, Garden City, New York, The Natural
History Press, 1969.

Steinitz, C., P. Parker and L. Jordan "Hand Drawn Overlays: Their
History and Prospective Uses", in Landscape Architecture, September 1976.

Harrington, S. 2010. The nature of Ian McHarg's Science.
Landscape Journal 29:1-10.

Lecture 8 Carrying Capacity Methods

Bucks County Planning Commission, "Performance Zoning - Site Capacity Calculation", 1978.

Frissell, S. S., R. G. Lee, G. H. Starkey and E. H. Zube, "A Framework for Estimating the Consequences of Alternative Carrying Capacity Levels in Yosemite Valley", in Landscape Planning #7, 1980.

Arendt, R. G., Conservation Design for Subdivisions., Island Press., 1718 Connecticut Ave., N.W. Suite 300., Wash. D.C. 20009., ISBN 1-55963-489-8., 1996. pp. 27-48.

Lecture 9 Modeling Methods

Meadows, D., Meadows, D., and Randers, J., Beyond The Limits., John Wiley and Sons., New York., 1992

Steinitz, C., A Framework for Theory Applicable to the Education of Landscape Architects (and other Environmental Design Professionals) in Landscape Journal., pp. 136-143., Vol. 9, No. 2. 1990.

Lecture 10 GIS Methods

Instructional Guide (pdf) for GIS component of class