

UNIVERSITY OF NEW MEXICO

The 2013 Southwest Summer Institute for Preservation and Regionalism

PLANNING FOR SUSTAINABILITY

WEEK-LONG INTENSIVE

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JUNE 24-28, 2013

This class gives students background in the concept of sustainability as it relates to urban design and city and regional planning. It provides participants with a foundation in the history, theory, and methods of sustainability planning, and explores applications of sustainability planning to topics such as land use, urban design, site planning, architecture, transportation, energy use, climate change, economic development, and social equity. Though the class will investigate detailed sustainability strategies in many of these areas, the emphasis will be on developing analytic tools that can help students develop sustainable strategies throughout their careers in their own areas of professional interest.

The format will be a mixture of short lectures providing background on topics; discussions of readings and students' personal experiences; exercises including role plays and group brainstorming exercises; graphic sketches of potential site designs (no graphic experience necessary); and walking tours of sites in the Albuquerque area.

Learning Goals

- Be able to define sustainable development and articulate key themes and perspectives
- Be able to identify environmental, economic, and social dimensions of sustainability within specific situations at different scales
- Understand potential sustainability initiatives at neighborhood, city, region, state, national, and international scales
- Gain practice in developing sustainable site design strategies for development projects
- Develop familiarity with the LEED green development rating system

Readings (available at the UNM bookstore; read as much as possible beforehand)

- Wheeler, Stephen M. and Timothy Beatley, eds., 2009. *The Sustainable Urban Development Reader* (Second Edition), London: Routledge.
- Wheeler, Stephen M. 2013. *Planning for Sustainability: Creating Livable, Equitable, and Ecological Communities* (Second Edition). London: Routledge. The second edition of this book has just been published and should be available from the UNM bookstore approximately June 15. It will not be available in the US through other sources until July.

Readings in *Planning for Sustainability* are the priority. Skim readings in *The Sustainable Urban Development Reader* for additional background.

Grading

Participation: 30%

Quiz: 20%

Paper: 50% -- Analysis of a sustainability issue of particular interest to you in the form of a 2,500-word research paper. Discuss topics with the instructor during the week of the class. Due to the instructor by July 30th.

Schedule

Day	Morning 9-12	Afternoon 1-6
Mon June 24	9:00 Welcome; Introductions <u>Lecture</u> : History of the Sustainability Concept, Definitions, and Perspectives <u>Discussion</u> : <i>PFS</i> : Chapters 1-4; <i>Reader</i> : Readings on the Origins of “Sustainability” 11:00 <u>Role Play</u> : Understanding Different Perspectives in a Sustainability Debate	1:00 <u>Lecture</u> : Who Plans for Sustainability At Different Scales? <u>Discussion</u> : <i>PFS</i> : Chapters 19-25 <u>Exercise</u> : Sustainability Issues Where We Come From; Sustainable Community Visions 3:00 <u>Building/Green Roof Tour</u> & Discussion of Water Issues in NM with Prof. Bill Fleming 4:30 <u>Walking Tour</u> : Sustainability Opportunities in the UNM Neighborhood
Tue June 25	9:00 <u>Lecture</u> : Land Use Planning, Urban Design, and Sustainability <u>Discussion</u> : <i>PFS</i> : Chapters 10-11; <i>Reader</i> : Calthorpe, Gehl, Wheeler (infill) chapters 10:45 <u>Exercise</u> : Identifying Sustainability Strategies for the Albuquerque Region	1:00 <u>Lecture/Exercise</u> : Measuring Sustainability: Ecological Footprints, Carbon Calculators, and Sustainability Indicators <u>Discussion</u> : <i>PFS</i> : Chapter 6; <i>Reader</i> : Section 3 (Tools) 3:00 <u>Walking Tour</u> : Sustainability Opportunities and Projects in Downtown Albuquerque (including tours of Hotel Andaluz and Silver Gardens)
Wed June 26	9:00 <u>Lecture</u> : Transportation and Sustainability <u>Discussion</u> : <i>PFS</i> : Chapter 12; <i>Reader</i> : Cervero, Newman & Kenworthy, Pucher chapters 10:45 <u>Film and Discussion</u> : <i>The Nature of Cities</i>	1:00 <u>Lecture</u> : Economic Development <u>Discussion</u> : <i>PFS</i> : Chapter 16; <i>Reader</i> : Economic Development section <u>Exercise</u> : Sustainable Economic Development Strategies for Four New Mexico Cities 3:00 <u>Field Trip</u> : Mesa del Sol

Thurs June 27	<p>9:00 <u>Lecture</u>: Materials, Energy, and Climate Change Planning</p> <p><u>Discussion</u>: <i>PFS</i>: Chapters 7, 8, 9; <i>Reader</i>: Energy and Materials section</p> <p>10:45 <u>Quiz and Discussion</u>: Synthesizing Material to Date</p>	<p>1:00 <u>Lecture</u>: Planning for Sustainability Internationally</p> <p><u>Discussion</u>: <i>PFS</i>: Chapter 19; <i>Reader</i>: International Section</p> <p><u>Videos</u>: Curitiba + Other International Examples</p> <p>3:00 <u>Exercise</u>: National Sustainability Strategies for Four Countries</p> <p>4:30 Visit Site for Friday Workshop</p>
Fri June 28	<p>9:00 <u>Guest Lecture</u>: Green Building Standards, Erin Murphy, Everblue</p> <p><u>Discussion</u>: <i>PFS</i>: Chapter 14; <i>Reader</i>: Green Architecture and Building section</p> <p><u>Exercise</u>: Working with the LEED system</p>	<p>1:00 <u>Workshop</u>: In teams develop design proposals for a UNM College of Sustainability Studies</p> <p>2:15 Pin up initial site analysis and conceptual diagrams</p> <p>4:00 Present proposals</p> <p>5:00 Party</p>