LAND 444 Ecology of Landscapes - Fall 2009
Monday / Wednesday, 3:00 - 4:15, Clark C 359
Professor Jeff Lakey

Contact: jsl@jefflakey.com
Office Hours: 4:30 - 5:30 pm Mondays after class or by appointment

What is Landscape Ecology?
Landscape ecology is the study of the forms of, and interactions between, physical, chemical, and biological elements of the earth's surface at a variety of spatial scales, and how they change through time.

Landscape ecology principles serve decision-makers and help resolve pressing issues in conservation, planning, design, development, and management of land.

Course Objectives:
This course is intended to provide students -

1. familiarity with the fundamental principles of landscape ecology and ways it is used for landscape conservation, planning, design, development, and management;
2. an understanding of contemporary conservation, planning, and design issues that can be addressed through the application of landscape ecology principles;
3. experience in developing techniques of visual communication for conservation, planning, and design audiences concerned with ecological integrity in highly valued landscapes;
4. experience synthesizing and applying landscape ecology to selected contemporary problems.

Textbook:

Other Key Sources:


CSU Catalogue Course Description:
+LAND 444 03(3-0-0). Ecology of Landscapes. F. Prerequisite: LAND 360; one course in biology. Theories, methods, and practices for interpreting, describing, and representing natural and human modified landscapes. ($)
Course Grades:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Project 1</td>
<td>15%</td>
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<td>Project 2</td>
<td>20%</td>
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<td>Project 3</td>
<td>25%</td>
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<tr>
<td>Group Project</td>
<td>30%</td>
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<tr>
<td>Participation, Respectfulness, and Professionalism</td>
<td>10%</td>
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<td>Total</td>
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Each assignment will be evaluated and receive a grade:

A  Distinctive professional school quality (90%-100%)
B  Distinctive professional school quality with minor revisions (80%-89%)
C  Distinctive professional school quality with moderate revisions (70%-79%)
D  Distinctive professional school quality with major revisions (60%-69%)
F  Incomprehensible or without redeeming qualities (below 60%)

Letter grades will be granted based on the relative professional quality of the work completed as of the specified due dates. Grades will be assigned based on the instructor's professional judgment, which shall be final, but may be appealed as described in the current CSU General Catalog under "Academic Appeals." If a student does not submit an assignment when it is due, the project letter grade will be reduced by two levels (A=C, B=D, C=F). Grades of “incomplete” are available only in the event of demonstrated life-threatening health or family emergency and will be handled on a case-by-case basis.

Readings:

24 Aug  Intro to course & requirements

Syllabus


26 Aug  Landscape & Issues Defined


31 Aug  Landscape Meaning & Attitudes I


2 Sep  Landscape Meaning & Attitudes II


7 Sep  Holiday - NO CLASS

9 Sep  Abiotic Causes of Landscape Pattern I


14 Sep  Abiotic Causes of Landscape Pattern II / Project 1 Due


16 Sep  Proposal Writing Workshop

21 Sep  Local Field Trip I - TBD
23 Sep  Biotic Causes of Landscape Patterns I / Group Project Proposals Due


28 Sep  JSL out - Conway School Visit - NO CLASS
Catch up on readings and projects

30 Sep  JSL out - GSD Alumni Council Meeting - NO CLASS
Catch up on readings and projects

5 Oct  Biotic Causes of Landscape Patterns II / Project II Due


7 Oct  Group Project Proposal Advising / Drawing for presentation dates

12 Oct  Proposal Presentations (5 Min. Presentations)

14 Oct  Scale


19 Oct  Group Project Advising

21 Oct  Patches


26 Oct Local Field Trip II - TBD


28 Oct Corridors


2 Nov Edges


4 Nov Mosaics


9 Nov Disturbance & Change in Mosaics I


11 Nov Disturbance & Change in Mosaics II


16 Nov Spatial Harmonies In Nature and Design / Project III Due


18 Nov Case Study

23 Nov  Recess - NO CLASS
25 Nov  Recess - NO CLASS

30 Nov  Group Project Boards Due / Group Presentations
2 Dec  Group Presentations

7 Dec  Group Presentations
9 Dec  Group Presentations

Projects:
PROJECT 1 - Landscape Interpretation and Meaning
PROJECT 2 - Landscape Pattern Causes and Descriptions
PROJECT 3 - Characterizing and Representing Landscape Structure and Function
GROUP PROJECT - Landscape Ecological Conservation and Development Plan

Course Meeting Agenda:

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<tr>
<th>Week</th>
<th>MON</th>
<th>WED</th>
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<tr>
<td>1</td>
<td>24 Aug Intro to course &amp; requirements</td>
<td>26 Aug Landscape &amp; Issues Defined</td>
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<td>2</td>
<td>31 Aug Landscape Meaning &amp; Attitudes I</td>
<td>2 Sep Landscape Meaning &amp; Attitudes II</td>
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<td>3</td>
<td>7 Sep Holiday - NO CLASS</td>
<td>9 Sep Abiotic Causes of Landscape Patterns I</td>
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<td>4</td>
<td>14 Sep Abiotic Causes of Landscape Patterns II  / 16 Sep Proposal Writing Workshop</td>
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<td><strong>Project I Due</strong></td>
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<td>21 Sep Local Field Trip I</td>
<td>23 Sep Biotic Causes of Landscape Pattern II / Group Project Proposals Due</td>
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<td>6</td>
<td>28 Sep Conway School Visit - NO CLASS</td>
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<td>7</td>
<td>5 Oct Biotic Causes of Landscape Pattern II / Project II Due</td>
<td>7 Oct Group Project Proposal Advising / Drawing for presentation dates</td>
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<td>12 Oct Proposal Presentations (5 Min. Presentations)</td>
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<td>19 Oct Group Project Advising</td>
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<td>13</td>
<td>16 Nov Growth Symmetry &amp; Dynamics /</td>
<td>18 Nov Case Study</td>
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<td><strong>Project III Due</strong></td>
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<td>14</td>
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<td>30 Nov Group Project Boards Due / Group Project Boards Due / Group Presentations</td>
<td>2 Dec Group Presentations</td>
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<td>16</td>
<td>7 Dec <strong>Group Presentations</strong></td>
<td>9 Dec <strong>Group Presentations</strong></td>
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<td>17</td>
<td>14 Dec - Monday: 11:20a-1:20p (2 hours) is the time reserved for a final in this course.</td>
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**Recommended Readings:**


Udall, Stewart. 1963. The Quiet Crisis. Holt Rinehart and Winston, New York, NY, USA. Chapters 1, 2, 5, 6, 10, 12.

