Geography 5: People and the Earth’s Ecosystems
T, Th 2:00 to 3:15 AM, Moore 100

Dr. Thomas W. Gillespie
1181 Bunche Hall
E-mail: tg@geog.ucla.edu
Office Hours: Tuesday, Thursday 1:00 to 2:50 PM

Course Introduction
This class examines people’s impacts on the environment over a local, regional, and global spatial scale. In particular, we will examine people, people’s historic and contemporary impacts on climate, landscapes, the ocean, endangered species and habitats in Los Angeles, California, and the World.

Course Readings
The following text is required: *Visualizing Environmental Science* by Berg and Hager

Course Requirements
Exams (70 percent of final grade): Students will be required to take a mid-term (30%) and a final exam (40%). The mid-term will be Thursday week 5 and the final exam will be last day of class.
Labs (30 percent of final grade): Students will be required to attend labs taught by T.A.’s. Student will also be requested to visit and undertake research and restoration on the UCLA campus and undertaken a final research project in Lab.
Plagiarism If you copy and paste anything from the Internet that is plagiarism. If you copy someone else work that is plagiarism. Please understand we can check on this.
Attendance Since the class only meets twice a week, you are required to attend all classes and lab section. The instructor reserves the right to select random days to take attendance. If you are not there points will be taken off you final grade for each missed class.

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<th>Week</th>
<th>Topic</th>
<th>Lab Exercises</th>
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<td>Week 1:</td>
<td><strong>Class Introduction: Science and Art of Geography</strong></td>
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<td>Ecosystems</td>
<td>Visualizing the World</td>
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<td>Temperate: Tundra, Boreal Forest, Temperate Forests, Grasslands</td>
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<td>Tropical: Deserts, Savanna, Dry Forests, Tropical Forests</td>
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<td><strong>Read: Chapter 1, 6</strong></td>
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<td>Week 2:</td>
<td><strong>People and Population</strong></td>
<td>Population &amp; Resources Debate</td>
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<td>Origin: History of You and Distribution</td>
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<td>Population Growth</td>
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<td>Resource Use</td>
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<td><strong>Read: Chapter 2, 7</strong></td>
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<td>Week 3:</td>
<td><strong>People and Agriculture</strong></td>
<td>Agriculture and UCLA/Restoration</td>
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<td>Origin of Agriculture</td>
<td>Meet at Women’s Softball Field for Lab</td>
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<td>California Agriculture</td>
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<td>Food and Medicinal Plants</td>
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Read: Chapter 12, 14

Week 4:

People and Forests
Temperate Forest: Use and Management
Tropical Forests: Use and Management
Plants & People
UCLA Botanical Garden
Read: Chapter 13

Week 5:

People and Grassland & Scrub
Use and Conservation
Modern Agriculture
Midterm
Read: Chapter 15

Week 6:

People and Water, Oceans & Coasts
Coral Reefs
Kelp Beds
Temperate and Tropical Coasts
Read: Chapter 10, 11

Week 7:

People and Climate
Natural Climate Cycles
People’s Impact on Climate
Climate Studies
Read: Chapter 8, 9

Week 8:

Energy
Fossil Fuels
Renewable Energy
Energy Use in LA
Read: Chapters 17, 18

Week 9:

Conservation in Los Angeles and California
Current Case Studies
Presentations
Read: Chapters 3, 4

Week 10:

Current Research Questions and the Future
Presentations

Final exam will be the last day of class.