CU 2010 - Sustainability Leadership (3 credits)

The Foundational Course for the Sustainability Minor

T, Th 3:30-4:45 pm, ASC 300 & 306 & Online

Instructors

Leidy Klotz, Ph.D, 208 Lowry, 864-656-3326, leidyk@clemson.edu

Jennifer Goree, M.Ed, 302 Fike Recreation Center, 864-656-5002, goree@clemson.edu

Nicole Barclay, 131 Lowry Hall, nmbarcl@g.clemson.edu

"We have not inherited the earth from our ancestors; we have borrowed it from our children." ~ Ancient Proverb

"You must be the change you wish to see in the world." ~ Mahatma Gandhi

"True compassion is more than flinging a coin to a beggar; it comes to see that an edifice which produces beggars needs restructuring." ~ Martin Luther King, Jr.

Course Description: Participants, representing Clemson's diverse student body, will learn and apply critical thinking skills to understand economic, social, and environmental sustainability in such contexts as personal lifestyle choices, the structure of the built environment, and the operation of public and private institutions. Participants will also develop and practice skills to act as agents of change in the University and the broader community.

Course Objectives: Students will work across disciplines to strengthen their critical thinking skills. To practice these critical thinking skills, students will engage with the multi-dimensional, complex challenges inherent in sustainability. More specifically, students will:

- Explore complex challenges by:
  - defining sustainability;
  - identifying and discussing fundamental issues of sustainability;

- Analyze multi-dimensional problems by:
  - analyzing how their values relate to sustainability;
  - analyzing how their actions impact sustainability issues;
  - recognizing interrelated systems;

- Extrapolate from one conceptual context to another by:
  - evaluating how their area of study/major influences sustainability issues;
  - applying sustainability concepts on local and global scales;

- Synthesize alternative solutions to multi-dimensional challenges by
  - Critically evaluating proposals for sustainability projects;

- Communicate complex ideas by:
  - practicing change agent skills for sustainability;
  - developing and sharing your own plan to address sustainability challenges through engagement at Clemson and beyond.

This course is part of the Clemson Thinks<sup>2</sup> Seminar. Clemson Thinks<sup>2</sup> is the University's Quality Enhancement Plan to improve students' critical thinking skills through transformative learning and teaching.

We will assess your critical thinking skills at the beginning of this course and again at the end with the California Critical Thinking Skills Test (CCTST). You will earn 40 points toward your participation score for completing the test, but your actual CCTST score will not impact your final grade.

Critical Thinking is "the art of analyzing and evaluating thinking with a view to improving it" (Paul and Elder, 2014).
Within the context of this course content, the following critical thinking skills will be applied:

- evaluation of competing causal explanations;
- evaluation of hypotheses for consistency with established facts;
- determination of the relevance of information for evaluating an argument or conclusion;
- evaluation of the appropriateness of procedures for investigating a question of causation;
- evaluation of data for consistency with established facts, hypotheses, or methods; and
- recognition of flaws and inconsistencies in an argument.

Several assignments are designed to result in critical thinking artifacts (CTA) which should exhibit your critical thinking skills. You will be provided a rubric ahead of time for these assignments that detail the critical thinking skills the assignment is targeting. The rubric will be posted on Canvas, the online course management system for this class. The critical thinking artifact (CTA) assignments are designated below in the grading section.

Course Schedule: The class will meet twice a week, according to the schedule presented here. This is a schedule of discussions. Reading assignments and class activities are posted on Canvas. Because unforeseen circumstances may require changes in the assigned readings and the course outline, you are responsible not only for due dates specified in the syllabus, but also for any announcements/changes made in class.

Please consider the following while participating in the course:

- Productive questioning
- Respectful disagreement
- Different perspectives
- Perspective talking
- Thoughtful silence

Course Specifics: [Grading and more ...](https://canvas.instructure.com/courses/940147/pages/course-specifics)

Guest Speakers:

Kate Radford: radford@clemson.edu

Dr. Catherine Mobley: camobile@clemson.edu

Freddy Paige: fpaige@clemson.edu

Dr. Caye Drapcho: cdrapch@clemson.edu

Tony Putnam: TONY@clemson.edu

Dr. Leidy Klotz: leidyk@G.CLEMSON.EDU

Dr. David Ladner, ladner@clemson.edu

Brian Maleck: bmaleck@clemson.edu

Date | Details | Time
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Thu Aug 20, 2015 | Introduction/Orientation (https://canvas.instructure.com/calendar?event_id=948008&include_contexts=course_940147) | 2am
Tue Aug 25, 2015 | California Critical Thinking Skills Test (CCTST) 1 (https://canvas.instructure.com/calendar?event_id=968072&include_contexts=course_940147) | 12am
| Last day to register or add a class, declare Audit or Pass/No Pass (https://canvas.instructure.com/calendar?event_id=954756&include_contexts=course_940147) | 12am
Thu Aug 27, 2015 | CCTST Test 1 (https://canvas.instructure.com/courses/940147/assignments/3579433) | 8:59pm
| Jennifer Goree: Critical Thinking Introduction (https://canvas.instructure.com/calendar?event_id=948016&include_contexts=course_940147) | 5:30pm to 6:15pm
| Sustainability Survey (https://canvas.instructure.com/courses/940147/assignments/3579439) | 8:59pm
Tue Sep 1, 2015 | Last day to drop a class or withdraw from the University without a W grade (https://canvas.instructure.com/calendar?event_id=954757&include_contexts=course_940147) | 12am
**PCS Panel** (https://canvas.instructure.com/calendar?event_id=948021&include_contexts=course_940147) 5:30pm to 6:45pm

**Thu Sep 3, 2015**

**Leadership & Engagement Activities** (https://canvas.instructure.com/calendar?event_id=951491&include_contexts=course_940147) 5:30pm to 6:45pm

**Tue Sep 8, 2015**

**Nicole Barclay: What is Sustainability?** (https://canvas.instructure.com/calendar?event_id=948020&include_contexts=course_940147) 5:30pm to 6:45pm

**Thu Sep 10, 2015**

**Nicole Barclay: Millennium Development Goals to the Sustainable Development Goals** (https://canvas.instructure.com/calendar?event_id=948022&include_contexts=course_940147) 5:30pm to 6:45pm

**Tue Sep 15, 2015**

**Jennifer Goree: Population - Who Will Feed China?** (https://canvas.instructure.com/calendar?event_id=948023&include_contexts=course_940147) 5:30pm to 6:45pm

**Thu Sep 17, 2015**

**Catherine Mobley: Mobilizing to Save** (https://canvas.instructure.com/calendar?event_id=948024&include_contexts=course_940147) 5:30pm to 6:45pm

**Tue Sep 22, 2015**

**Freddy Paige: Charity or Justice** (https://canvas.instructure.com/calendar?event_id=948025&include_contexts=course_940147) 5:30pm to 6:45pm

**Thu Sep 24, 2015**

**Freddy Paige: Greening the Ghetto** (https://canvas.instructure.com/calendar?event_id=948026&include_contexts=course_940147) 5:30pm to 6:45pm

**Tue Sep 29, 2015**

**Discussion Leadership: Group #1** (https://canvas.instructure.com/calendar?event_id=948027&include_contexts=course_940147) 5:30pm to 6:45pm

**Thu Oct 1, 2015**

**Nicole Barclay: Sustainability in the Built Environment** (https://canvas.instructure.com/calendar?event_id=948028&include_contexts=course_940147) 5:30pm to 6:45pm

**Tue Oct 6, 2015**

**Nicole Barclay: Life Cycle Assessment** (https://canvas.instructure.com/calendar?event_id=948029&include_contexts=course_940147) 5:30pm to 6:45pm

**Thu Oct 8, 2015**

**Discussion Leadership: Group #2** (https://canvas.instructure.com/calendar?event_id=948030&include_contexts=course_940147) 5:30pm to 6:45pm

**Fri Oct 9, 2015**

**Last day for instructors to issue midterm evaluations** (https://canvas.instructure.com/calendar?event_id=954758&include_contexts=course_940147) 12am

**Evaluating Sustainability Through a Critical Thinking Lens** (https://canvas.instructure.com/courses/940147/assignments/3579440) 1:59am

**Mon Oct 12, 2015**

**Fall Break: Classes do not meet** (https://canvas.instructure.com/calendar?event_id=954755&include_contexts=course_940147) 12am

**Tue Oct 13, 2015**

**Fall Break: Classes do not meet** (https://canvas.instructure.com/calendar?event_id=954756&include_contexts=course_940147) 2am

**Thu Oct 15, 2015**

**Discussion Leadership: Group #3** (https://canvas.instructure.com/calendar?event_id=951497&include_contexts=course_940147) 5:30pm to 6:45pm

**Tue Oct 20, 2015**

**Carbon Capture** (https://canvas.instructure.com/calendar?event_id=951502&include_contexts=course_940147) 5:30pm to 6:45pm

**Thu Oct 22, 2015**

**Tony Putnam** (https://canvas.instructure.com/calendar?event_id=951542&include_contexts=course_940147) 5:30pm to 6:45pm

**Tue Oct 27, 2015**

**Last day to drop a class or withdraw from the University without final grades** (https://canvas.instructure.com/calendar?event_id=954759&include_contexts=course_940147) 12am

**Leidy: Economics of Sustainability** (https://canvas.instructure.com/calendar?event_id=951499&include_contexts=course_940147) 5:30pm to 6:45pm
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thu Oct 29, 2015</td>
<td><a href="https://canvas.instructure.com/courses/940147/assignments/3579441">To Drill or Not to Drill</a></td>
<td>1:59am</td>
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<tr>
<td></td>
<td><a href="https://canvas.instructure.com/calendar?event_id=948017&amp;include_contexts=course_940147">Jennifer Goree: To Drill or Not to Drill?</a></td>
<td>5:30pm to 6:45pm</td>
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<td></td>
<td>^Last Day to Withdraw. <a href="https://canvas.instructure.com/calendar?event_id=948009&amp;include_contexts=course_940147"></a></td>
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<td>Mon Nov 2, 2015</td>
<td><a href="https://canvas.instructure.com/calendar?event_id=954760&amp;include_contexts=course_940147">Registration for spring and summer terms begins</a></td>
<td>12am</td>
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<tr>
<td>Tue Nov 3, 2015</td>
<td><a href="https://canvas.instructure.com/calendar?event_id=948031&amp;include_contexts=course_940147">David Ladner: How many Big Mac's are in your bottle of water?</a></td>
<td>5:30pm to 6:45pm</td>
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<tr>
<td>Thu Nov 5, 2015</td>
<td><a href="https://canvas.instructure.com/calendar?event_id=948033&amp;include_contexts=course_940147">Discussion Leadership: Group #4</a></td>
<td>5:30pm to 6:45pm</td>
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<td>Tue Nov 10, 2015</td>
<td><a href="https://canvas.instructure.com/calendar?event_id=948032&amp;include_contexts=course_940147">Brian Maleck: Transportation</a></td>
<td>5:30pm to 6:45pm</td>
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<tr>
<td>Thu Nov 12, 2015</td>
<td><a href="https://canvas.instructure.com/calendar?event_id=948012&amp;include_contexts=course_940147">Jennifer Goree: The Science of Risk and Headlines</a></td>
<td>5:30pm to 6:45pm</td>
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<td>Tue Nov 17, 2015</td>
<td><a href="https://canvas.instructure.com/calendar?event_id=958911&amp;include_contexts=course_940147">California Critical Thinking Skills Test (CCTST) 2</a></td>
<td>12am</td>
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<td><a href="https://canvas.instructure.com/courses/940147/assignments/3579434">CCTST Test 2</a></td>
<td>8:59pm</td>
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<td>Thu Nov 19, 2015</td>
<td><a href="https://canvas.instructure.com/calendar?event_id=951531&amp;include_contexts=course_940147">Jennifer Goree: Its Critical to Bring it all Together: Write your Exam Discussion</a></td>
<td>5:30pm to 6:45pm</td>
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<td>Tue Nov 24, 2015</td>
<td><a href="https://canvas.instructure.com/calendar?event_id=948015&amp;include_contexts=course_940147">Pecha Kucha Sustainability Proposal</a></td>
<td>5:30pm to 6:45pm</td>
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<td>Wed Nov 25, 2015</td>
<td><a href="https://canvas.instructure.com/calendar?event_id=954752&amp;include_contexts=course_940147">Thanksgiving Break: Classes do not meet</a></td>
<td>12am</td>
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<td>Thu Nov 26, 2015</td>
<td><a href="https://canvas.instructure.com/calendar?event_id=954753&amp;include_contexts=course_940147">Thanksgiving Break: Classes do not meet</a></td>
<td>12am</td>
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<td>Fri Nov 27, 2015</td>
<td><a href="https://canvas.instructure.com/calendar?event_id=954754&amp;include_contexts=course_940147">Thanksgiving Break: Classes do not meet</a></td>
<td>12am</td>
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<td>Tue Dec 1, 2015</td>
<td><a href="https://canvas.instructure.com/calendar?event_id=948034&amp;include_contexts=course_940147">Pecha Kucha Sustainability Proposals</a></td>
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<tr>
<td>Thu Dec 3, 2015</td>
<td><a href="https://canvas.instructure.com/calendar?event_id=948013&amp;include_contexts=course_940147">Pecha Kucha Sustainability Proposals</a></td>
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