

HORT 3080 CT2 Sustainable Landscape Garden Design, Installation, & Maintenance [2014]

Class: P&A Room E-146 T, TH 9:30-10:45 AM

Instructor: Dr. Ellen Vincent, 173 P&A Building
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864.656.1342 office
Office hours: Monday and Wednesday 9:00-11:00 or by appointment

Academic Integrity Statement: As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a 'high seminary of learning.' Fundamental to this vision is a mutual commitment to truthfulness, honor and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form.

Required Texts

(1) *Sustainable Landscape Management: Design, Construction, and Maintenance*

Thomas W. Cook and Ann Marie VanDerZanden (2011)
College Bookstore Hendrix Center

(2) *The Sustainable Sites Initiative: Guidelines and Benchmarks 2009* (PDF download)

American Society of Landscape Architects, Lady Bird Johnson Wildflower Center at the University of Texas at Austin, and United States Botanical Garden
http://old.sustainablesites.org/report/Guidelines%20and%20Performance%20Benchmarks_2009.pdf

Recommended Texts (optional)

- (1) *Manual of Woody Landscape Plants* by Michael Dirr (sixth edition, 2009), (required for HORT 303 Landscape Plants class)
- (2) *Herbaceous Perennial Plants: A Treatise on Their Identification, Culture, and Garden Attributes* by Allan Armitage (second edition, 2008)

Critical Thinking Student Learning Outcomes

- (1) Explore complex challenges associated with sustainable landscape design, installation and maintenance.
- (2) Analyze sustainable design problems using multiple lenses and perspectives.
- (3) Extrapolate from one conceptual context to others in the sustainable landscape.
- (4) Develop creative solutions to complex challenges.
- (5) Communicate complex ideas effectively.

This class is a Clemson Thinks2 (CT2) seminar –developed to increase and enhance your critical thinking skills

Goals of the CT2 Seminar

1. Students will develop university-level competence at the activities that characterize critical thinking.
2. Students will describe the specific activities that characterize critical thinking and will reflectively report on their own use of these tools.
3. Students will apply critical thinking skills to solve problems that occur outside the academic classroom.

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What are critical thinking skills?

1. Determine the relevance of information for evaluating an argument or conclusion.
2. Recognize flaws and inconsistencies in an argument.
3. Evaluate competing causal explanations.
4. Evaluate hypotheses for consistency with established facts.
5. Determine whether an artistic interpretation is supported by evidence contained in the work.
6. Recognize the salient features or themes in a work of art (landscape design).
7. Evaluate the appropriateness of procedures for investigating a question of causation.
8. Evaluate data for consistency with established facts, hypotheses, or methods.

Seminar Design

- 3 credit hours
- Required class for horticulture majors, other majors with a strong interest are welcome
- Common student learning outcomes for critical thinking and sustainable landscape design
- Pre and post critical thinking testing built into the course; subject content exams

Teaching/Learning Strategies

Critical thinking skills will be promoted through modeling (classroom experience), personal experience/reflection (essays), discourse (group exercises in class), and vocabulary (tests).

Critical Thinking Artifacts

- CT essays and surveys will be representative examples of students' critical thinking skills.
- Collective responses to selected CT questions from in-class exams will be submitted as artifacts.
- Pre and post scores on out of class CT tests will be available as artifacts.

Assessment

Writing: Critical thinking visual essays or plant profile sheets will be due. See rubrics.

Participation: Active engagement in group discussions, group exercises, and class activities.

Exams: 2 CT tests out of class (pre and post on-line); 3 in-class exams and one cumulative final exam.

The instructor *may* offer an option that allows the average of the in-class exams to be substituted for the final exam.

Grading:

Item	Qty	Points	Percentage
Essays/critical thinking	2	100 points each	15%
Plant Profile sheets	2	100 points each	15%
Participation/engagement		100 points	15%
Exams on-line CT	2	100 points each	15%
Exams in-class	4	100 points each	40%

Attendance is mandatory

Extra credit opportunities will be announced during the semester

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Attendance Policy: Attendance is required at every class unless classes have been officially canceled by the University. If you miss a class you are responsible for the material covered during that class. Excused absences include official hospital or Redfern documentation and official field trip documentation from other classes **prior** to the absence. **Three unexcused absences results in a loss of 5 points from the final score. Five unexcused absences result in a loss of 10 points from the final scores. Six or more unexcused absences results in a final letter grade reduction**, e.g. students with a final grade of B will receive a C.

All special circumstances (critical communications during class, arriving late to class, leaving early from class, etc) should be negotiated with the instructor prior to the class. Late arrivals and leaving early will be treated as absences unless previously negotiated with instructor.

If I have not arrived for class within the first fifteen minutes please feel free to lead a discussion of the previous class material or dismiss class, at your option. I will be in contact with the class via email as soon as possible.

Please check your Clemson email address at least once a day for potential messages dealing with this course. Do not forward your Clemson mail to another account (Yahoo, AOL, etc.) as those accounts tend to have issues like full in-boxes and limitations on attachments.

Assignment Citation Policy: All work submitted for a grade must be your own, unless group work is assigned. All text included in assignments that was written by someone other than you must be correctly quoted and cited. All images included in assignments must be identified to author/artist. If you are the creator of the image, please cite your name.

Positive engagement is strongly encouraged in class. Please treat other people's views with respect and courtesy and allow your inquisitive mind to take precedent over your judgmental mind. Also, refrain from texting, emailing, or using your computer for unrelated work while in class. All legitimate conflicts requiring connectivity should be negotiated with the instructor prior to class to avoid confusion.

Email professionalism: Please be sure to include an accurate and current subject line in each email. Every email (especially with attachments) should contain a greeting, a sentence or two explaining the attachments, and a closure.

Students with disabilities who require accommodation should contact the Office of Student Disability Services in Suite 239 Academic Success Center (656-6848) prior to contacting Dr. Vincent during office hours.

Please see me privately if you have special needs in this course.

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Date	Class Item	Assignment
Aug 21 TH	Class overview: into questionnaire, syllabus, intro to sustainability	Complete on-line Critical Thinking Test See instructions on Blackboard in "Content" folder Read <i>Sustainable Landscape Management</i> chapters 1&2 (pp.1-38) View Webpage "About SITES v2" at http://www.sustainablesites.org/about
Aug 26 T	Critical thinking introduction	Read Brookfield <i>Teaching for Critical Thinking</i> chapter 1 (pp. 1-25); Facione <i>Critical Thinking: What It Is and Why It Counts</i> (pp. 1-28)
Aug 28 TH	Stormwater control measures for campus parking lot	View SITES v2 Web pages: "Benefits of SS" http://www.sustainablesites.org/benefits and http://www.sustainablesites.org/benefits/water CT2 essay1 assigned
Sept 2 T	Sustainable landscape design	Critical thinking essay1 and image due by 9:30 a.m.
Sept 4 TH	Sustainable teams	Read <i>Sustainable Landscape Management</i> chapters 3-4 (pp. 39-79)
Sept 9 T	Sustainable landscape construction	View SITES v2 Web page "Certified Sites" http://www.sustainablesites.org/certified-sites
Sept 11 TH	Review & group exercises Linda Nilson (OTEI) attending	Read <i>Sustainable Landscape Management</i> chapters 5-6 (pp. 81-116)
Sept 16 T	Ecosystems and the landscape	
Sept 18 TH	Review & group exercises	
Sept 23 T	EXAM 1	
Sept 25 TH	Principles of design	Read <i>Landscape Principles & Practices</i> chapter 8 (pp. 139-160) on Blackboard Read "Rare and commonplace beauty" by R. Hester (pp. 107-109) on Blackboard Read "The shared landscape: What does aesthetics have to do with ecology?" by Gobster, Nassauer, Daniel, and Fry on Blackboard CT2 essay2 assigned
Sept 30 T	Review & group exercises	Critical thinking essay2 and image due by 9:30 a.m.
Oct 2 TH	Landscape perception/client interview/user's needs	Read "What will the neighbors think? Cultural norms and ecological design" by Nassauer, Wang, and Dayrell on Blackboard Plant profile sheet1 assigned
Oct 7 T	Review & group exercises	Plant profile sheet1 due by 9:30 a.m.

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Oct 9 TH	Environmental issues	Read <i>Sustainable Landscape Management</i> chapters 6 & 7 (pp. 101-131) Read <i>The Sustainable Sites Initiative: Guidelines and Performance Benchmarks 2009</i> Introduction; How to use the guidelines and performance benchmarks; and Index of prerequisites and credits (pp. 1-14)
Oct 14 T	Review & group exercises	
Oct 16 TH	Sustainable management: Measuring environmental impacts	Read <i>Sustainable Landscape Management</i> chapter 8-9 (pp. 133-190) Read <i>The Sustainable Sites Initiative: Guidelines and Performance Benchmarks 2009</i> Prerequisite 1.1 (pp. 15-18) Plant profile sheet2 assigned
Oct 21 T	<i>Social Life of Small Urban Spaces: A Film</i> by William H. Whyte	Plant profile sheet2 due by 9:30 a.m.
Oct 23 TH	Sustainable landscape soils	
Oct 28 T	EXAM 2	
Oct 30 TH	Landscape maintenance	
Nov 4 T	FALL break	
Nov 6 TH	Sustainable lawns	Read <i>Sustainable Landscape Management</i> chapter 10 (pp. 193-214) Read "What will the neighbors think? Cultural norms and ecological design" by Nassauer, Wang, and Dayrell on Blackboard View video: The High Line at http://www.youtube.com/watch?v=uRp8z4rLj-Q
Nov 11 T	Sustainable pest management	View video: <i>Weeds</i> from CBS Sunday http://www.cbsnews.com/video/watch/?id=7418602n&tag=mncol;lst;1
Nov 13 TH	Harritos (Vincent conference)	
Nov 18 T	Review and group exercises	
Nov 20 TH	EXAM 3	
Nov 25 T	Photo shoot	
Nov 27 TH	Holiday	
Dec 2 T	Critical review in class/survey	
Dec 4 TH	Plant problem samples	
Dec 10 W	Final exam 8:00 am -10:30 am	