GMMD 421 – Sustainability Design

A. **TITLE:** Sustainability Design

B. **COURSE NUMBER:** GMMD 421

C. **CREDIT HOURS:** 3

D. **WRITING INTENSIVE COURSE** (OPTIONAL):

E. **COURSE LENGTH:** 15 weeks per semester

F. **SEMESTER(S) OFFERED:** Fall

G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**
   3 Lecture Hours per week

H. **CATALOG DESCRIPTION:**
   Sustainability Design is a cross disciplinary study of the issues and efforts surrounding ecological crisis and the move towards sustainability in contemporary design. In this seminar course, students will investigate sustainability issues through lectures from several disciplinary angles, including the sciences, legal studies, economics, humanities and engineering. Following study and discourse around the problems and goals of sustainability, students will work with faculty to develop a semester long independent project pursuing some of these goals.

I. **PRE-REQUISITES/CO-COURSES:** Senior standing or permission of instructor

J. **GOALS STUDENT LEARNING OUTCOMES:**
   By the end of this course, the student will:

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<th>Course Objective</th>
<th>Institutional SLO</th>
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<td>a. Evaluate contemporary theories of the issues problems and goals surrounding ecological sustainability</td>
<td>2. Critical Thinking</td>
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<td>b. Research, visit and share institutional and professional resources regarding sustainability</td>
<td>1. Communication Skills, 4. Inter/Intrapersonal Skills</td>
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<td>c. Evaluate design processes and identify places for more sustainable methods.</td>
<td>2. Critical Thinking</td>
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<td>d. Create and implement a semester long project in pursuit of identified sustainability goals.</td>
<td>1. Communication Skills, 2. Critical Thinking, 3. Professional Competence</td>
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<td>e. Synthesize critical questions, findings, and ideas surrounding sustainability from seminar course presentations.</td>
<td>2. Critical Thinking</td>
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<td>f. Document their project's progress through periodic review with class and instructor.</td>
<td>1. Communication Skills, 4. Inter/Intrapersonal Skills, 3. Professional Competence</td>
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<td>g. Present and defend their results in a class presentation at the conclusion of the course.</td>
<td>1. Communication Skills, 2. Critical Thinking</td>
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<td>h. Create and present a professional paper that</td>
<td>1. Communication Skills</td>
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summarizes their research, process and results

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<td>i. Evaluate the success of their project and its implementation.</td>
<td>2. Critical Thinking</td>
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<tr>
<td>2. Critical Thinking</td>
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K. TEXTS:
- McKibben, Bill American Earth (Environmental Writing Since Thoreau)
  2008 Literary Classics of the United States, NY, NY

L. REFERENCES:
- McKibben, Bill *Eaarth* (Making a Life on a Tough New Planet)
  Times Books, Henry Holt and Company, NY, NY
- McKibben, Bill *Deep Economy* (the Wealth of Communities and the Durable Future)
- Shepard, Paul *Man in the Landscape*
  University of Georgia Press 2002 Copyright 1967
- Gore, Al *Earth In Balance: Ecology and the Human Spirit*
  Rodale Books 2006 Copyright 1992
- Carson, Rachel *Silent Spring*

M. EQUIPMENT:
- Classroom with Elmo projector, Document Camera, computer, internet and media player.

N. GRADING METHOD: A-F

O. MEASUREMENT CRITERIA/METHODS:
- Graded Essays
- Participation in face to face and online reviews
- Periodic reporting and revision of the semester long project, presentation and paper
- Checktests for lectures and readings
- Evaluation of the semester long project, presentation and paper

P. TOPICAL OUTLINE: See attachment
Topical Outline

I. A Brief History: The Emergence of Conservation Ideals In American Culture

II. Sustainability, Technology, Resourcism and Renewable Energy

III. Environmental Law: Litigation and Responsibility from the Individual to the International

IV. Environmental Issues, Awareness and Media

V. The Economics of Sustainability

VI. The Burgeoning Environmental Crisis: Invasive species to Climate Change

   VII. Project Development and Proposals
       a. Second Reader
       b. Timeline
       c. Revision and Approval

VIII. Project implementation and periodic review
       a. Class "Round Robin" reports
       b. Meetings with 2"d readers

IX. Project completion and Presentation
    a. Final presentations to Class, Instructor and Second Reader
    b. Evaluation