Fall 2014
IET3511-850/900 – Sustainability Engineering
Syllabus for all sections

Instructor: Professor Gregory L. Wiles
Preferred Email Address: Use D2L e-mail link, or secondly gwiles@spsu.edu
Office: M 123
Phone: 678-915-7314
Office hours on-campus: See course website

How to Contact the Instructor

The best way to reach me between class periods is using the D2L email. This way I will know what class you are in already. I will reply as quickly as possible to questions sent over e-mail. If you wish to meet with me in person, you can drop by my office during office hours. For online students, we can try email/phone at first and possibly with ad-hoc Wimba live session during the week if necessary.

Email Response Time

I commit to answering all emails within 24 hours from the time you first transmit the email, unless I let you know in advance of travel prohibiting me from doing so (or if I have an emergency). This short response time includes weekends and holidays. At times I will send a mass email to the class or an announcement. This will be through D2L Email and alternately with Hornet Mail. I do not know your Yahoo or Gmail accounts so do not expect any mass emails to those accounts. CHECK YOUR D2L EMAIL & HORNET EMAIL ACCOUNTS FREQUENTLY!
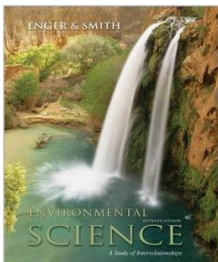
Course Description

Sustainability Engineering: Topics in Green Engineering focuses on the science and ethics of ecological, economical, and social environmental issues. The course will delve into the impact the human population has on the current environment as well as explore new sources of energy, air & water quality, waste treatment, reclamation, and conservation efforts. Government regulations, worldwide consortiums, and trends that are leading industries toward sustainability will also be explored.

Course Learning Objectives

Students will be able to:
- Recognize the environmental impact of the design, manufacture and use of engineered products and systems.
- Use engineering fundamentals to minimize environmental impacts throughout product life cycles.
- Recognize opportunities and promote environmental initiatives in a positive manner.
- Use metrics to quantify sustainability concerns.

Required Reference

Environmental Science, Enger & Smith, 11th Edition   ISBN 978-0-07-305028-7 Also available as eBook.

GeorgiaVIEW D2L Web Site

The GeorgiaVIEW D2L web site is for use by registered students. Any class handouts, slides, grades, announcements, and links will be available there, so please get in the habit of checking it often. To log in, go to: http://spsu2.view.usg.edu. Your User ID is the same as your email prefix, and initial Password is your email password. There are help links on the website too.

Attendance

This class will include team project assignments, online exams, and class participation or discussion groups on various topics. Students will not be allowed to make-up in-class assignments or exams unless approved by the instructor. Any make-up work approved may receive a reduced grade. Students who miss class for any reason are not exempt from the material covered during the class period. The instructor is NOT responsible for assisting the student catch up on class material when the student is absent from class.

Your attendance in class may impact your course grade because class participation is 10% of your grade. Class participation could be in the form of discussion posts and in-class discussions. It should be noted that students who do attend class on a regular basis normally perform better on graded assignments. However, simply being present in class does not guarantee that the student will achieve a high grade in the course.

Grade Distribution

	Percent
Research Projects and Presentations (3)	60%
On-line Exams (3)	30%
Class participation in open discussion formats online & class	10%

Projects will be conducted in teams with the first two projects written only and the last project written plus an oral presentation to the class. Class participation as well as online discussion forums is encouraged and graded. Likely topics will include the material in the reading assignment. There will not be a final exam. In-class extra credit work may be offered during the semester. Only students attending class can participate in discussions or offered the opportunity for the extra points.

Graded Assignment Feedback Statement

All assignments submitted by the student for grading will be returned to the student with a grade and with comments within one week after the student submits the assignment, add extra time for holidays or the Spring Break. Student assignments will not be returned to the student on a Saturday or a Sunday.

Research Project Report Guidelines

Team project reports will be written up as described below and submitted to Turnitin prior to the scheduled due date class period. These reports will be typed in Word and points will be subtracted for sloppy work as well as grammatical errors and spelling and most importantly plagiarism (If you don't know what this means – look it up).

"Students agree that by taking this course all required papers may be subject to submission for textual similarity review to Turnitin.com for the detection of plagiarism. All submitted papers will be included as source documents in the Turnitin.com reference database solely for the

purpose of detecting plagiarism of such papers. Use of the Turnitin.com service is subject to the Terms and Conditions of Use posted on the Turnitin.com site."

There is a Term Project Grading Rubric linked to the course home page you can refer to. **All text should be Times New Roman 12 pt font, double spaced.** All reports should have the following key parts/sections:

Cover Sheet - The report cover sheet will specify the Project Number (1, 2, 3), the Topic, your team number, and your team member names (if a team member did not participate, leave their names off!).

Introduction - This section should give the reader a basic understanding of the research done including a purpose statement of problem leading into the rest of the paper. (1 page or less)

Body - This section should include your complete write up. The requirements outlined in the Term Project assignment (1, 2, 3) should be included here. Innovative thought and beyond the normal investigation and conclusions will improve your grade. All graphs, charts, or images should also be in this section. (Maximum of 6 pages)

Conclusion - Include a conclusion statement regarding your team opinions on the usefulness of the research and its possible future with humankind and sustainability. (1 page or less)

Bibliography or References – List your source information here.

Post – Post to the D2L Dropbox.

Penalty for Submitting Assignments Late
If the student misses one or more graded assignments (any term papers, homework, modules assignments, quizzes or exams) or late more than one day during the semester then the student will receive a grade of zero on each assignment the student misses.

Make-Up Exams
Students will not be allowed to make-up in-class assignments or exams unless approved by the instructor. Any make-up work approved may receive a reduced grade. Students who miss class for any reason are not exempt from the material covered during the class period(s) the student misses. The instructor is NOT responsible for assisting the student catch up on class material when the student is absent from class.

Hybrid or On-Line Course Attendance Policy
Hybrid sessions (-850) are designed to be one-half classroom attendance and on-half on-line. The On-Line session (-900) will be attended one-half via on-line meeting room software such as Wimba and one-half pre-recorded on-line lectures. Both types of classes require the student to view the pre-recorded lecture between any live lectures. It will be the student's responsibility to schedule and view these lectures at your own convenience. The instructor cannot monitor who views the recorded lectures and those who do not. It is strongly recommended that you watch the lectures and keep up with class work and class discussions.

Disability Statement
"A student at Southern Polytechnic State University who has a disabling condition and needs academic accommodations has a responsibility to voluntarily identify him/herself as having a

disability by scheduling an appointment with the Disability Services Coordinator as soon as possible." (SPSU Catalog). Contact the Coordinator as follows: Kalisha Thomas, 678-915-7244, Building J, Room 253, kthomas2@spsu.edu.

Disruptive Behavior and Academic Dishonesty

SPSU has an Honor Code and a new procedure relating to when academic misconduct is alleged. All students should be aware of them. Information about the Honor Code and the misconduct procedure may be found at http://spsu.edu/honorcode/.

Professional Behavior

All students are expected to abide by the professional ethical behavior standards published in the SPSU catalog.

Contact Information for Technical or Academic Issues

If you have a technical problem with this software, please visit the GeorgiaVIEW Online Support Center for assistance.   http://help8.view.usg.edu/ics/support/default.asp?deptID=8075
If you have an academic issue then please ask your instructor for assistance.