

The University of Oklahoma

College of Continuing Education

Advanced Programs – Course Syllabus

Course Title:

Seminar in Resource and Environmental Geography: Natural Resource Management in a Globalizing World

Course Number:

GEOG 6240-220

Course Description:

The course provides an in-depth look into how society uses science and policy to relate to natural resource issues, and students will learn ways of identifying and handling natural resource problems. The course focuses on water and energy resource management through the lens of case studies associated with climate change and environmental impacts.

Class Dates, Location and Hours:

Dates: March 7 - 12, 2017

Location: SHAPE, Belgium. See Site Director for classroom location.

Hours: Tuesday - Friday 6:00-9:30 pm; Saturday and Sunday 8:30 a.m.-4:30 p.m.

Last day to enroll or drop without penalty: February 6, 2017

Site Director:

Email: apshape@ou.edu. Phone: 065-44-3654; DSN 423-3654.

Professor Contact Information:

Course Professor: Scott Greene

Mailing Address: 510C Sarkeys Energy Center, OU
Norman, OK 73019

Telephone Number: (405) 325-4319

E-mail Address: jgreene@ou.edu

Professor availability: The professor will be available via e-mail to students before and after the class sessions. On-site office hours are half an hour before and after each class session, by appointment.

Instructional Materials:

Due to the dynamic nature of the materials for the class, all course materials will be posted on the OU Desire to Learn (D2L) system two months before the start of the class. These will consist of several refereed scientific papers on the topics we will be discussing (approximately one-two 20-30 page papers per night). The initial required book report will come from a selection of books posted on D2L as well. To access D2L at <http://learn.ou.edu>; enter your OU NetID and password, and select course to access material. Please contact your local Site Director if you require assistance.

Course Objectives:

The main objective of this class is for students to develop a better understanding of issues associated with modern resource management from a geographical perspective.

Course Outline:

The course will track resource management issues past, present, and future. As described above, the readings for each day will be posted on D2L approximately two months before the start of the class. Topics to be discussed include:

1. Introduction and Overview
2. Climate and resource use of the Distant Past
3. Examples of Historical resource use – The rise and fall of the Norse Greenland colony
4. Examples of Historical resource use – Drought and the Mayans and Anasazi
5. Examples of Historical resource use – The Dust bowl and its implications
6. Historical example of atmospheric impact of resource use: Ozone and Acid Rain
7. Water, water everywhere? Future projections of water availability, impacts, and potential policy responses.
8. Whither Carbon? Present and future trends in carbon-based energy and possible alternatives
9. Science, Impacts, and policy issues associated with Global Warming
10. Towards a sustainable future: Future Mitigation and Adaptation Strategies

Assignments, Grading and Due Dates:

The course format is lecture and individual and group discussion. It is expected that you will have completed the readings and written assignment assigned for each class ahead of time. The readings and written assignment are designed to help the students prepare for class discussion.

Grades will be based upon the total points accumulated by the end of the course. Students will be expected to complete pre- and post-class assignments, in-class exercises, a term paper, and a final exam at the end of the course. The exercises and term paper are intended to foster understanding of particular problems, solutions, and management strategies, and to broaden personal responses and critical thinking to include multicultural perspectives and approaches. There will be several short writing assignments and in-class participatory activities as well. These will be based on the daily readings as posted on the class website.

Pre- and Post-Seminar Assignments:

In addition to the class schedule outline above, there is an assignment that will be due before class, and an assignment that will be due after the course ends.

Pre-Seminar Assignment:

The goal of this assignment is to examine either a positive or negative example of historical resource use and its impacts. This will take the form of an essay (4-5 pages, approximately 1000-1500 words) summarizing a book related to these topics. A list of suggested books is found on D2L.

Post-Seminar Assignment:

As part of the course, each student is also expected to prepare a research paper on a topic relevant to the items discussed in class. Each term paper (of at least 12-15 pages) will focus on a particular geographic region and/or environmental/climatic problem. Specific details will be discussed in class. **Due Date: Two weeks after the in-class portion ends, March 26, 2017.**

Grading:

This is a letter-graded course: A, B, C, D, or F.

Assignment	Percent of Course Grade
Pre-Seminar Assignment	25%
In-Class Exercises	20%
History Assignment	10%
Final Exam	30%
Post-Seminar Assignment	25%

Notice: Failure to meet assignment due dates could result in a grade of I (Incomplete) and may adversely impact Tuition Assistance and/or Financial Aid.

POLICIES AND NOTICES

Attendance/Grade Policy

Attendance and participation in interaction, individual assignments, group exercises, simulations, role playing, etc. are valuable aspects of any course because much of the learning comes from discussions in class with other students. It is expected that you attend all classes and be on time except for excused emergencies.

Excused absences are given for professor mandated activities or legally required activities such as emergencies or military assignments. It is the policy of the University to excuse absences of students that result from religious observances and to provide without penalty for the rescheduling of examinations and additional required class work that may fall on religious holidays. Unavoidable personal emergencies, including (but not limited to) serious illness; delays in getting to class because of accidents, etc.; deaths and funerals, and hazardous road conditions will be excused.

If you are obtaining financial assistance (TA, STAP, FA, VA, Scholarship, etc.) to pay all or part of your tuition cost, you must follow your funding agency/institution's policy regarding "I" (Incomplete) grades unless the timeline is longer than what the University policy allows then you must adhere to the University policy. Students who receive Financial Aid must resolve/complete any "I" (Incomplete) grades by the end of the term or he/she may be placed on "financial aid probation." If the "I" grade is not resolved/completed by the end of the following term, the student's Financial Aid may be suspended making the student ineligible for further Financial Aid.

Students are responsible for meeting the guidelines of Tuition Assistance and Veterans Assistance. See the education counselor at your local education center for a complete description of your TA or VA requirements.

Academic Integrity and Student Conduct

Academic integrity means honesty and responsibility in scholarship. Academic assignments exist to help students learn; grades exist to show how fully this goal is attained. Therefore all work and all grades should result from the student's own understanding and effort.

Academic misconduct is any act which improperly affects the evaluation of a student's academic performance or achievement. Misconduct occurs when the student either knows or reasonably should know that the act constitutes misconduct. Academic misconduct includes: cheating and using unauthorized materials on examinations and other assignments; improper collaboration, submitting the same assignment for different classes (self-plagiarism); fabrication, forgery, alteration of documents, lying, etc...in order to obtain an academic advantage; assisting others in academic misconduct; attempting to commit academic misconduct; destruction of property, hacking, etc...; intimidation and interference with integrity process; and plagiarism. All students should review the Student's Guide to Academic Integrity at http://integrity.ou.edu/students_guide.html

Students and faculty each have responsibility for maintaining an appropriate learning environment. All students should review policies regarding student conduct at <http://studentconduct.ou.edu/>

Accommodation Statement

The University of Oklahoma is committed to making its activities as accessible as possible. For accommodations on the basis of disability, please contact your local OU Site Director.

Adjustment for Pregnancy/Childbirth-Related Issues

Should you need modifications or adjustments to your course requirements because of documented pregnancy-related or childbirth-related issues, please contact me as soon as possible to discuss. Generally, modifications will be made where medically necessary and similar in scope to accommodations based on temporary disability. Please see <http://www.ou.edu/content/eoo/faqs/pregnancy-faqs.html>.

Title IX Resources

For any concerns regarding gender-based discrimination, sexual harassment, sexual misconduct, stalking, or intimate partner violence, the University offers a variety of resources, including advocates on-call 24/7, counseling services, mutual no-contact orders, scheduling adjustments, and disciplinary sanctions against the perpetrator. Please contact the Sexual Misconduct Office at smo@ou.edu or (405) 325-2215 (8-5), or the Sexual Assault Response Team at (405) 615 -0013 (24/7) to report an incident. To learn more about Title IX, please visit the Institutional Equity Office's website at <http://www.ou.edu/content/eoo.html>

Course Policies

Advanced Programs policy is to order books in paperback if available. Courses, dates, and professors are subject to change. Please check with your OU Site Director. Students should retain a copy of any assignments that are mailed to the professor for the course. Advanced Programs does not provide duplicating services or office supplies.

Any and all course materials, syllabus, lessons, lectures, etc. are the property of professor teaching the course and the Board of Regents of the University of Oklahoma and are protected under applicable copyright.

For more information about Advanced Programs, visit our website at: <http://www.goou.ou.edu/>

INSTRUCTOR VITA

John Scott Greene, Ph.D.

Education

- 1994 Ph.D., Climatology, University of Delaware
- 1990 M.A., Geography, University of Hawaii, Manoa
- 1987 B.A., Majors in Applied Mathematics & Geography, University of California, Berkeley

Current Positions

- Advanced Programs Professor since 2000
- Professor of Geography, University of Oklahoma, Norman, OK
- Director, Environmental Verification and Analysis Center, University of Oklahoma
- Director, Oklahoma Wind Power Initiative

Frequently Taught Advanced Programs Courses

- GEOG 6413 Seminar on the Socio-Economic Impacts of Climate Change
- GEOG 5113 Quantitative Methods in Geographic Research
- GEOG 6240 Seminar in Resource Geography

Major Areas of Teaching and Research Interest

- Applied Climatology
- Environmental Impacts of Climate and Climate Change
- Geography of Renewable Energy
- Statistical Techniques

Representative Publications and Presentations

- Greene, J.S., 1996, Analysis of summertime precipitation intensity in the Eastern United States, *Physical Geography*, 17; 401-418.
- Greene, JS, B Paris, and M Morrissey, 2007, "Analysis of Historical Changes in Extreme Precipitation Events in the Tropical Pacific", *Climate Research*, 34, 1-14.
- Greene, J.S., Kalkstein, LS. Mills, D., and Samenow, J. An examination of climate change on extreme heat events and climate/mortality relationships in large US cities, *Journal of Weather, Climate, and Society*.
- Greene, J.S., K. McNabb, R. Zwillig, and M. Morrissey, and S. Stadler: "Analysis of Vertical Wind Shear in the Southern Great Plains and Potential Impacts on Estimation of Wind Energy Production" *International Journal of Global Energy Issues*, 23(1), 191-211
- Kalkstein, L.S., J.S. Greene, D. M. Mills, A. D. Perrin, 2008: "The Development of Analog European Heatwaves for US cities to Analyze Impacts on Heat-Related Mortality", *Bulletin of the American Meteorological Society*.

Representative Honors and Awards Received

- Tromp Scientific Award (This award is given by the International Society of Biometeorology once every three years for outstanding research in biometeorology)
- University of Oklahoma Excellence in Research Award
- University of Oklahoma Teaching Scholars Initiative Award for Outstanding teaching
- US Department of Energy National award for Outstanding Wind Energy Research and Outreach

Major Professional Affiliations

- American Geophysical Union
- Association of American Geographers
- International Society of Biometeorology