

# College for Seniors

## COURSE PROPOSAL

For Curriculum Committee use		
Semester(s) this course was previously offered:	Proposal Number:	F08-03

Please complete this form with the understanding that you may revise the course description and topics before the catalog is finalized. To see a catalog from last semester, go to the College for Seniors Web site: [www.isualum.org/en/college\\_for\\_seniors](http://www.isualum.org/en/college_for_seniors)

If you are completing this form using Microsoft Word, note that it is done in tables form. To see (or to hide) the gridlines, click the Table menu and click Show Gridlines (or Hide Gridlines).

1. **Course title:** Global Warming

2. **General field of interest** (e.g., Science, Music): Science, economics, political science

3-4. **Curriculum Committee contact and course coordinator:** Carol Alexander Phillips

Address: 1934 Stevenson Drive City: Ames Zip 50010

Phone: 232-0595 E-mail: caphill@mchsi.com

**Brief background of instructor** (all or part of this will be used in the catalog):

Included under #5. **Course description** and #14. Potential guest lecturers from outside of Ames.

5. **Course description** that can be used to advertise the course in the catalog (you may revise this later if you wish).

What is climate change? What have been the effects of climate change? What has happened internationally, in the United States, and in Iowa as a result of global warming? How has climate change affected living and nonliving things on the planet? Is there consensus on global warming and its effects? What is the effect of human activity related to climate change? What policy changes have been successful? What can our community and an individual do to make a difference?

1. **Overview of Global Change**—Eugene S. Takle, ISU Professor of Geology & Atmospheric Sciences/Agricultural Meteorology, **Sept. 15**

What is the Intergovernmental Panel on Climate Change Report and how has it impacted response to global warming? What is the evidence of global climate change? Why is the concentration of carbon dioxide important? What are some climate surprises?

2. **Climate Change: Plant and Animal Responses**—Diane M. Debinski, ISU Ecology, Evolution, & Organismal Biology, Professor, **Sept. 22**

How climate is changing will be discussed. The effect of environmental responses will be linked to climate change. Specific Midwestern issues related to climate change will be included. The missing links and future research needs will be noted.

3. **Impact of Global Change on Agriculture**—Frederick L. Kirschenmann, ISU Leopold Center for Sustainable Agricultural, Distinguished Fellow, **Sept. 29**

How do we prepare for climate change and sustainable agriculture? What do we know about climate change and agriculture and what remains uncertain? How will the interrelationship of climate change, water, and energy affect agriculture? What are some possible solutions, barriers, and opportunities?

4. **Trends in Climate Variables & Relationship to Global Warming**—Elwynn Taylor, ISU Agricultural Meteorology, Professor, **Oct. 6**

Participants will receive an update on climate trends related to global warming. In addition, the link between Iowa weather and agriculture will be discussed. Resources will be shared. Bring your weather questions with you.

**Impact of Global Change on Water Resources and Use**—Richard M. Kruse, Iowa Water Center, Director, **Oct. 13**

Multiple agents of global change impact water resources. Two of the most critical factors are population growth and climate change. The implications of human demands and changing climate on water quality and quantity will be presented. Additionally, the effect of global change on food vs. biofuel production will be presented.

**5. Sustainable Design and Development**—Kevin R. Nordmeyer, RDG Planning & Design, Architect, **Oct. 20**

An increased emphasis on sustainability has created a greater emphasis on building design. This emphasis has led to changes in original designs and in remodeling plans designed to provide greater protection of the environment. The explosion of the number and kinds of environmentally friendly possibilities with a focus on preserving resources, improving indoor air quality, creating a financial return for the owner will be discussed.

**7. Policies Related to Climate Change**—Roya Stanley, Iowa Office of Energy Independence, Director, **Oct. 27**

Policy changes have been occurring in response to climate change. What policies and initiatives are in place in Iowa to strengthen the economy, improve the environment, and ensure energy security? What can individuals concerned about their carbon footprint do to minimize the impact?

**8. Social Justice Issues Related to Reducing Carbon Footprint & Increasing Sustainability**—Brian Eslinger, Unitarian Universalist Fellowship, Minister; ISU Lecturer, Religion & Philosophy

Issues related to social justice will be discussed with a focus on why such issues are important. There will be an emphasis on what individuals can do to better protect the environment and ensure that future inhabitants will be able to meet their needs.

**7. Preferred**

**class size:** \_\_\_ 15 or less \_\_\_ 16-25 \_\_\_ 26-35 \_\_\_ 36-45 \_\_\_ 46-55 X 55 or more

**8. Preferred session**

**(include year) :** X Sept.-Nov. 08 \_\_\_ Jan.-Feb. \_\_\_ March-May

**9. Preferred number of**

**weeks and sessions:** \_\_\_ 4 weeks \_\_\_ 6 weeks X 8 weeks

X Once a week \_\_\_ Twice a week

**10. Check preferred class time. Put N/A where you are not available.**

	Monday	Tuesday	Wednesday	Thursday	Comments
9:00-10:30					
11:00-12:30	X				
1:00-2:30					
3:00-4:30					

**11. Recommended textbook (if any):** None

Where to obtain: \_\_\_\_\_

Cost of textbook: \_\_\_\_\_

Students will pay: \_\_\_ Instructor \_\_\_ College for Seniors when registering

**12. Copying:**

If a large quantity of printed materials is proposed, materials may be offered as a packet to be handed out at the beginning of the semester. Cost of printing, if substantial, may be added to cost of course.

**Estimated number of pages to be copied for each session:** (Will check with presenters.)

**13. Requested equipment** (Podium with microphone, chalk, and dry-mark pens are provided at Scheman and ISU Foundation locations.)

**Please check choices.** (A more detailed form will be provided for your use before classes begin.)

**NOTE: If using PowerPoint, you must provide your own computer.**

<input type="checkbox"/> DVD player	<input checked="" type="checkbox"/> LCD projector	<input type="checkbox"/> 35mm slide projector
<input type="checkbox"/> VHS player	<input checked="" type="checkbox"/> Elmo (opaque) projector	<input checked="" type="checkbox"/> Lapel microphone
<input type="checkbox"/> CD player	<input type="checkbox"/> Overhead transparency projector	<input checked="" type="checkbox"/> Laser pointer

**14. Please list any potential guest presenters and city in which they live:**

Eugene S. Tackle, ISU Geology & Atmospheric Science/Agricultural Meteorology, Professor  
 Diane M. Debinski, ISU Ecology, Evolution, and Organismal Biology, Professor  
 Frederick L. Kirshenman, ISU Leopold Center for Sustainable Agriculture, Distinguished Fellow  
 Elwynn Taylor, ISU Agricultural Meteorology, Professor  
 Richard M. Kruse, Iowa Water Center, Director  
 Kevin R. Nordmeyer, Architect, RDG Planning & Design  
 Roya Stanley, Director Iowa Office of Energy Independence  
 Brian Eslinger, Unitarian Universalist Fellowship, Minister, ISU Religion & Philosophy, Lecturer  
 (All of the above presenters live and/or work in Ames, Iowa)

**15. Is travel reimbursement requested?**  Yes  No X