MSU

Senior
MSU CSS seminar

ESSE COURSE : Michigan State University 1997

EARTH SYSTEM SCIENCE SEMINAR, S 1997

Objectives: 1. To enhance participants' interdisciplinary exposure to selected topics in Earth System Science and global environmental change. 2. To allow in-depth individual student exploration of one such topic of their own choosing. 3. To meet objectives 1 & 2 with emphasis on including information resources available over the World-Wide Web. 4. To enhance participant skills in information retrieval and management on the Web.

Course expectations: Students will investigate a topic of their own choosing in detail, designing their final presentation as (1) a Web page on their chosen topic and (2) a oral orientation presentation on their topic and home page. A written statement of topic selection, objectives, goals, and a work plan for creating the home page is due Fr 7 Feb. Oral presentations will be 30-minutes/student. The home page and oral presentation will be the basis for grading.

General format: One 1-hour overview orientation/discussion session on a particular topic (Tu), followed by one 2-hour workshop session, usually to explore Web resources on that topic.

Each overview session will be preceded by selected focused readings, so that all participants have a common basis for discussion from their own diverse disciplinary perspectives.

The schedule of specific topics follows:

Earth System Science 1997

Date	Topic	Facilitator
10 Jan F	Introduction to Earth System Science	Gage/Long
14 Jan Tu	Biosphere Concepts	Gage
17 Jan F	Information systems and technology	Gage/Pijanowski
21 Jan Tu	Global Information Technology	Pijanowski
24 Jan F	Home page design & development	Pijanowski
28 Jan Tu	Global Climate Systems	Webber
31 Jan F	WWW session on Global Climate	Webber
04 Feb Tu	Information technology & tools	Gage
07 Feb F	WWW Workshop	Pijanowski
11 Feb Tu	Human dimensions of Global Change	Harris
14 Feb F	Role of CIESIN -Global Information Systems	Miller
18 Feb Tu	Global Scales of Time and Space	Velbel
21 Feb F	WWW session on Time and Space	Velbel/Gage
25 Feb Tu	Global Hydrology	Long/Velbel
28 Feb F	WWW session on Global Hydrology	Long/Velbel
03-07 Mar	SPRING BREAK	
11 Mar Tu	Global Atmospheric Chemistry	Long
14 Mar F	WWW session on Global Atmospheric Chemistry	Long
18 Mar Tu	Global Food Systems	Gage
21 Mar F	WWW session on Global Food Systems	Gage
25 Mar Tu	Global Fisheries	Harris
28 Mar F	WWW session on Global Fisheries	Harris
01 Apr Tu	Polar Systems	Webber
04 Apr F	WWW session on Polar Systems	Webber
08 Apr Tu	Global Land Use	Pijanowski
11 Apr F	WWW session on Global Land Use	Pijanowski
15 Apr Tu	Student presentations	
18 Apr F	Student presentations	
22 Apr Tu	Student presentations	
25 Apr F	Student presentations	

ORGANIZATION OF A PROJECT REPORT

TITLE PAGE (What the subject is about)

AUTHORS or DEVELOPERS (Who did it)

INTRODUCTION (Why it was done)

- Problem Statement
- Background
- Expectations

METHODOLOGY (How it was done)

- Tools used
- Databases
- Approach

RESULTS (What was the outcome)

- Single Component Approach
- Multiple Component Approach

CONCLUSION (What we found out and other issues)

- Future directions