spring 2009 course syllabus: educ 5995, section 221
exemplary science projects for K-12 teachers
COSEE: Great Lakes Alive!
professional development

instructor of record:
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Dates: February 16 – March 6, 2009

Program Description: The Center for Ocean Sciences Education Excellence (COSEE) Great Lakes, in partnership with the Great Lakes Sea Grant Network and UMD - CE, is offering a special credit option for its “COSEE: Great Lakes Alive!” workshop for science educators.

This online program requires 15 hours of instruction for one (1) collegiate graduate credit. Course content includes: plankton and benthos, food webs and bioaccumulation, Great Lakes fisheries, invasive species, and environmental health and human interactions.

Spring 2009 Course:
Educ 5995 Section 221 Special Topics: Exemplary Science Projects for K-12 Teachers: COSEE, Great Lakes Alive! for one (1) collegiate graduate credit.

Required Readings and Resources: Participants will receive a list of recommended readings and URL resource sites.

Course Objectives: Goals for this course include:
♦ Enhance science literacy through studies of Great Lakes biology;
♦ Connect educators with scientists for collaboration;
♦ Relate the science of the Great Lakes to the principles of Ocean Literacy;
♦ Support teaching about the Great Lakes through
  o High quality, standards based curriculum materials,
  o Updated science information, and
  o Building networks of colleagues.
Learning Outcomes: Course participants will be able to:
♦ Demonstrate an increased understanding of the biology of the Great Lakes region;
♦ Identify and evaluate educational resources regarding the biology of the Great Lakes region;
♦ Integrate Great Lakes biological research, educational materials, and resources into educational curriculum.

Learning requirements for UMD credit participants:
♦ Watch the five (5) PowerPoint presentations and explore the related resources in the Great Lakes Room. Attendance will be verified using the monitoring feature of Caucus software.
♦ Post/ask at least one question as a follow-up after each PowerPoint presentation in the Great Lakes Room.
♦ Participate in each of the activity discussion groups in the Great Lakes Room. In these activity rooms, you will post comments and questions to interact with other students and participants. The discussion will include how an activity/resource can be adapted to your classroom and how each activity relates to National Science Education Standards, Ocean Literacy standards, and state standards. An important part of this workshop is the interaction you have with other classroom teachers and participants.
♦ Participate in the other rooms (Resources, Café, etc.) by posting comments and questions.

Required Components for one (1) Collegiate Graduate Credit:
♦ Answer the “Big Questions” that will be posted in the Credit Room. Post your answers to these three summative questions in the Credit Room in the item number with your name.
♦ Develop a lesson plan using information from at least one of the PowerPoint presentations from this workshop and the additional resource(s) provided for use in your current teaching setting;
♦ Post an outline of your lesson plan(s) in the Credit Room in the item number with your name;
♦ Teach the lesson and report on how the lesson was conducted and the results of implementation by posting an evaluative summary of the lesson’s effectiveness in the Credit Room in the item number with your name;
♦ Contribute to the online evaluation survey questions at the end of the workshop.

Completion Deadlines:
♦ General comments and questions posted for discussion during the course will need to be completed by February 27, 2009.
♦ Specific comments and questions posted for each presentation will need to be completed within four days after the presentation begins. For example, the discussion for Presentation 1 will run from Feb. 16 – 19, Presentation 2 from Feb. 18 – 21, etc.
♦ Lesson Plan Projects and “Big Questions” are due to the Instructor of Record by March 6, 2009. Grades will be submitted per UMD guidelines by March 13, 2009.

To obtain grades/UMD transcript:
To view a transcript or print an unofficial version, you need to use your UMD username. Follow these steps to initiate your UMD student email account.

1. Log on to UMD to determine your UMD username: [http://www.d.umn.edu](http://www.d.umn.edu). Click on “people” and type your name. Record the 8-character alphanumeric username assigned to you by UMD.


3. Click “initiate your account”.

4. Enter your social security number, UMD ID number, and birth date (ex. 07/20/1965).

5. Type a password of at least 8 digits/letters/characters (ex. Djk65$++).

6. Click “submit form” and your account is activated.

7. View your grades and print an unofficial transcript or request an official transcript to be sent directly to your principal ($5.00 per official transcript payable to UMD).

Print a transcript form by following this link: [http://www.d.umn.edu/registrar/transcripts.html](http://www.d.umn.edu/registrar/transcripts.html) and select the PDF version or the online version (requires major credit card payment).

To print an unofficial transcript, logon to URL: [http://www.d.umn.edu/registrar/transcripts.html](http://www.d.umn.edu/registrar/transcripts.html)

If you need your password reset, call UMD ITSS Computing Services at: 218/726-8847.

For additional assistance, please call Helen Smith Stone in UMD Continuing Education at 218/726-6680 or by email: hsmithst@d.umn.edu. If you require special accommodations, please contact the Instructor of Record.

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