

NRES 701(d) Interdisciplinary Modeling for Aquatic Ecosystems

Lecture Summary Assignment

(3-credit option only)

Due date: August 5, 2005¹

Each student signed up for the 3-credit option has been assigned two lecture topics (see next page). You are responsible for preparing summaries of each of your assigned lectures that must include the following:

- Synthesis of the material that was presented in the lecture during the workshop
- Additional literature review to supplement the lecture, including citations and a list of references
- Additional material incorporated from reviews of lecture postings prior to the workshop, and discussions of the lecture topic (via the website or direct contact by email, telephone, or in-person) with other students and workshop participants before, during, and after the course (i.e., until the assignment is due). Lecture postings for disciplinary lectures should be available by June 17, and lecture postings for other lectures should be available by June 30 (see next page). *It is highly recommended that you interact with the lecturers for your assigned topics as you prepare this summary.*
- Extra credit: Suggestions for one or more exercises that can complement the lecture to enhance the lecture material

Each lecture summary should be at least 5 pages (not including references) single-spaced. Students who have been assigned topics along with another student should each prepare a separate summary, although you are encouraged to discuss the lecture with each other. Lecture summaries should be prepared in a professional manner because they will be used as background material to be posted on the course website so that others who may teach the course in the future will have starting material for developing their own lectures. This is a unique opportunity for you to provide input into the design of this graduate course.

Please send each summary report to Dr. Saito at nres701d@dlese.org by August 5, 2005¹.

Grading: Each paper is worth 250 points and will be assigned points as follows:

100 points	Synthesis of lecture material, including additional material from lecture postings and interactions with workshop participants
100 points	Literature review
50 points	Professional appearance and quality

¹ Students who do not need grades by August 12, 2005 in order to graduate can choose to complete the summary papers by September 30, 2005. They will receive an incomplete (I) for the course for the Summer 2005 session, and the (I) will be replaced by the actual course grade once the summary papers are graded. Please inform Dr. Saito at lsaito@cabnr.unr.edu by **July 17** if you will be choosing this option.

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Name	Topic	Lecture date	Lecture time	Lecturer(s)²
Shane Rotter	Hydrologic/watershed modeling	Mon., 7/18	8:00-8:50	T. Piechota
Karin Peternel	Snow hydrology modeling	Mon., 7/18	9:00-9:50	G. Dana
Anna Makowski	Flow and transport modeling	Mon., 7/18	10:00-10:50	G. Pohll
Karin Peternel	Water quality modeling	Mon., 7/18	11:00-11:50	J. Warwick
Ned Dochtermann	Philosophy of modeling ^a	Mon., 7/18	1:00-1:50	S. Jenkins
Arek Fristensky				
Robert Eckard	Data and models ^a	Mon., 7/18	2:00-2:50	F. Biondi
Kristen Hychka	Uncertainty/errors in models ^a	Mon., 7/18	3:00-3:50	G. Leavesley
Jorge Arufe	Issues of scale ^a	Mon., 7/18	4:00-4:50	D. DeAngelis, M. Grismer, L. Saito
Rosemary Carroll				
Jill Schlanser	Groundwater/surface water modeling	Tue., 7/19	8:00-8:50	M. Grismer
Ned Dochtermann	Statistical modeling	Tue., 7/19	9:00-9:50	A. Panorska
Anna Makowski	Economics modeling	Tue., 7/19	10:00-10:50	J. Braden
Brian Billings	Atmospheric modeling	Tue., 7/19	11:00-11:50	V. Grubišić
Jorge Arufe	Water resources systems modeling	Wed., 7/20	8:00-8:50	D. P. Loucks
Heidi Pethybridge	Ecological systems modeling	Wed., 7/20	9:00-9:50	D. DeAngelis
Rosemary Carroll	Ecological modeling (algae)	Wed., 7/20	10:00-10:50	C. Fritsen
Kristen Hychka	Ecological modeling (fish)	Wed., 7/20	11:00-11:50	D. Beauchamp
Robert Eckard	MMS modeling ^a	Thu., 7/21	8:00-8:50	G. Leavesley
Shane Rotter				
Jill Schlanser	GIS modeling ^a	Thu., 7/21	9:00-9:50	M. Merwade
Arek Fristensky				
Heidi Pethybridge	Advanced electronic resources ^a	Thu., 7/21	10:00-10:50	V. Grubišić, S. Olds
Brian Billings	Collaborative inter-institutional teaching ^a	Thu., 7/21	11:00-11:50	M. Merwade

^a These lectures will be posted by June 30; all other lectures should be posted by June 17

² See <http://swiki.dlese.org/aquamod> for contact information for lecturers; if you have trouble reaching the lecturer(s), please contact Dr. Saito or Heather Segale for assistance.