TREES AND FORESTS, Fall 2001
ERS/ENH/PLB 144  Lectures MWF 10-10:50, Chemistry 179  Discussions–Hunt 241

FORM AND FUNCTION (Rik Smith)

Sep 28  Forest Management in California  Andrea Tuttle, Director, CA Dept. Forestry/Fire Protection

Oct 1  Introduction to Trees & Forests  Ch. 1
Oct 3  Growth & Development  Ch. 6
Oct 5  Tree Architecture  Ch. 6

Oct 8  Wood & Roots; Biomechanics & Growth Responses  Ch. 6
Oct 10  Mycorrhizal Tree Roots (Bledsoe)  Ch.15:384-386; Ch.19:538-540; web matls.
Oct 12  Temperature  Ch. 9
Oct 13  Optional Field Trip 8am-5pm

Oct 15  The Urban Forest  Scott Maco, USFS Center for Urban Forestry, Davis, CA
Oct 17  Photosynthesis in the Forest  Ch. 8: 182-203
Oct 19  Carbon Allocation  Ch. 18: 486-503 T.B.A.

FOREST PROCESSES (Caroline Bledsoe)

Oct 22  Forest Canopy - Organisms & Processes  web, readings
Oct 24  1st Mid-Term Exam (Smith)
Oct 26  Carbon Balance of Ecosystems: Productivity  Ch. 18: 499-519

Oct 29  Forest Soils - Organisms & Processes  Ch. 11
Oct 31  Nitrogen - Fixation, Storage (Smith)  Ch 19: 557-569
Nov 2  Nutrient Cycling - Inputs & Cycles  Ch. 19: 526-549

Nov 5  Nutrient Cycling - Decomposition  Ch. 19: 550-575
Nov 7  Forest Defenses to Herbivory and Pathogens  Ch 14: 334-340
Nov 9  Forest Biodiversity  Ch 20

FOREST POPULATIONS AND COMMUNITIES (Michael Barbour)

Nov 12  HOLIDAY – Veterans Day
Nov 14  2nd Mid-Term Exam (Bledsoe)
Nov 16  Phenology & Life History Patterns  Barbour, Ch 5 (all)

Nov 19  Phenology & Life History Patterns  Ch 14: 333-352
Nov 21  Phenology & Life History Patterns
Nov 23  HOLIDAY - Thanksgiving  (NO discussion sections this wk)

Nov 26  T.B.A.
Nov 28  Community & Vegetation: Concepts  Ch 1:6-17; Ch.15:361-382
Nov 30  Community & Vegetation: Concepts  Ch 15: 386-399

Dec 3  Fire as a Natural Disturbance  Ch. 12
Dec 5  Forest Succession  Ch. 17
Dec 7  Disturbance  Ch. 16

Final Exam Tuesday Dec 11, 8-10am.
DISCUSSION SECTIONS
Wed 3-4, 4-5  Thurs 11-12, 1-2  Fri 1-2, 2-3  Hunt 241

FORM AND FUNCTION (Rik Smith and TA’s)
Week 1  Oct 3-5  Plant Parts
Week 2  Oct 10-12  Campus Tree Tour
Week 3  Oct 17-19  T.B.A.

FOREST PROCESSES (Caroline Bledsoe and TA’s)
Week 4  Oct 24-26  Video "Timber for Tomorrow" - Merv’s Forest on Vancouver Isl. BC
Week 5  Oct 31-Nov2  Forest Soils & Mycorrhizas - soils lab
Week 6  Nov 7-9  T.B.A.

FOREST POPULATIONS AND COMMUNITIES (Michael Barbour and TA’s)
Week 7  Nov 14-16  Forest Fragmentation in the 1950s
Week 8  Nov 21-23  Thanksgiving Holiday (No discussions)
Week 9  Nov 28-30  Video: "John Muir & Gifford Pinchot"
Week 10  Dec 5-7  Fire and Succession

INSTRUCTORS & TEACHING ASSISTANTS
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Available in UCD Bookstore
Please read assigned chapters/pages BEFORE class to get the most out of the material

COMMUNICATIONS:
List server: trees-f01@ucdavis.edu
Web page: http://lawr.ucdavis.edu/classes/ERS144/index.html

ON RESERVE IN LIBRARY:
- ALSO AVAILABLE ON:
  Past Mid-terms & Final exams with Answer Keys
  Electronic Reserve: http://www.lib.ucdavis.edu/access/reserv/erbr.html

GRADING: Mid-Term 1 = 100 pts  Mid-Term 2 = 100 pts  Final Exam = 200 pts

OPTIONAL FIELD TRIP: Saturday Oct. 13, 8am-5pm. Forestry tour led by Dr. Barbour. Includes tour of private forestry operations, understory treatments, etc. 20 pts. Extra Credit.
Transportation provided; space for ~30 people; sign up with TAs by Wed. Oct. 10th.