Fall 9-1-2001

BIOL 495.01: Advanced Plant Biology

William Good

The University Of Montana

Syllabus **Biology 495 Advanced Plant Biology** **Fall 2001**

Topic: Population Biology of Plants
Instructor: Bill Good
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Text to be determined Reserve Readings to be determined

Grading

	POINTS	**DATE**
EXAM 1	25	OCT 3
EXAM 2	25	NOV 2
STUDENT PRESENTATION	10	NOV30- DEC 7
PROBLEM SETS	10	TBA
FINAL EXAM (comprehensive)	30	DEC 21, 8-10 am

Objectives: The course will cover traditional subjects in plant population biology with reference to current and relevant past research. Students should learn basic natural history of plant populations, how plant life histories are similar to and different from animal populations, how plants interact with conspecifics, other plant species, pathogens and animals, and methods for studying plant populations.

Lecture Schedule (Tentative)

Date	**Subject**
Sept 5, 7	History of population biology, early models, r and K
Sept 10, 12, 14	Seed dispersal, seed bank, dormant phases
Sept 17, 19, 21	Seedlings, density effects,
Sept 24, 26, 28, Oct 1	Mixed species effects, allelopathy
Oct 3	Exam 1
Oct 5, 8,10,12	Herbivore effects
Oct 15,17,19	Pathogens
Oct 22, 24, 26	Biological Control
Oct 29, 31	Annuals, biennials, woody plants
Nov. 2	Exam 2
Nov 5, 7, 9	Seed production strategies
Nov 14, 16, 19	Reproduction and Life History strategies
Nov 26, 28,	Community diversity, predators, succession
Nov 30, Dec 3,5,7	Student Presentations
Dec 10, 12, 14	Evolution of plant communities, current literature
Dec. 21 (8am-10am)	Final Exam

Other dates:
Sept 24, last day to add/drop by DIAL BEAR or Cyberbear; last day to pay fees, finalize late registration
Oct 15, last day to drop the course with advisor's signature