GRANDE PRAIRIE REGIONAL COLLEGE DEPARTMENT OF SCIENCE - FALL 1992

COURSE:

BOTANY 1990 - Plant Biology

INSTRUCTOR:

Dr. Joan Snyder Office: J208

Phones: 539-2846 or 532-0709

Office hours: MWF 11:00-12:00, W 1:00-3:00 or

by appointment.

PREREQUISITE:

BIOL 30

TRANSFERABILITY:

U of A - BOT 199; U of C - Bot 225; U of L -

Bot 2000.

TEXTBOOK:

Raven, P.H. et al. 1986. Biology of Plants,

Fourth Ed. Worth Publ., Inc., N.Y.

U. of A., Botany Laboratory Manual

NATURE OF COURSE:

This course is an introduction to the biology of plants emphasizing the relationships between form and function. The first half of the course deals with the structure and function of plants, emphasizing the physiological processes of plants including nutrient uptake and utilization, energy relations, and plant growth and development. The second half of the course stresses plant diversity with emphasis on plant evolutionary history, including adaptive and distinguishing features and reproductive strategies of important representative plant divisions.

REQUIREMENTS:

Students are expected to prepare for and attend all classes, to sit tests, and to submit assignments as specified. Attendance in laboratories is required for credit on lab reports. There will be a midterm and a final exam, a laboratory final exam, two quizzes and weekly lab reports required.

EVALUATION:

Quizzes	15%
Lab Reports	20%
Midterm Exam	20%
Final Lab Exam	15%
Final Exam	30%

EQUIPMENT AND SUPPLIES:

A lab coat is required for all laboratory activities.

CLASS SCHEDULE FALL 1992

Hook	of	100 1992		
week of			Text Chap.	
Sep.	2	Introduction	1	
	7	Plant cells (Holiday-Sep.7)	2,3,4	
	14	Vascular plant structure	20,21,22,23	
	21	Energy in plants: photosynthesis and respiration, QUIZ #1 (Sep. 25)	5,6,7	
	28	Uptake & transport in plants	26,27	
Oct.	5	Plant growth and development	19,24,25	
	12	Growth and development (cont.) (Holiday Oct. 12)		
	19	Midterm exam (Oct. 19), Plant classification, Bacteria	10,11	
	26	Viruses, Fungi, Protista	12,13,14	
Nov.	2	Protista (cont.), Bryophytes	14,15,16	
	9	Seedless vascular plants Holiday (Nov. 11)	17	
	16	QUIZ #2 (Nov. 16), Seed plants	18	
	23	Plant evolution	28,29.30	
	30	Plant ecology	31,32	
Dec.	7	Review and wrap up		

BOTANY 1990 LABORATORY SCHEDULE FALL 1992

Date		2372
Sep.	9	Field trip
	16	#1 - Orientation
	23	#2 - Photosynthesis & respiration
	30	#3 - Soft stems & intercellular water movement
Oct.	7	#4 - Woody stems & transpiration
	14	#5 - Roots & hormone control of plant growth
	21	#6 - Fungi
	28	#7 - Algae and Bryophytes
Nov.	4	#8 - Bryophytes (cont.) & Ferns
	11	No Lab (holiday)
	18	#9 - Gymnosperms
	25	#10 - Angiosperm reproduction
Dec.	4	LAB FINAL EXAM