

GRANDE PRAIRIE REGIONAL COLLEGE
DEPARTMENT OF SCIENCE
BOTANY 1990 - FALL 1993
PLANT BIOLOGY

Registrar

INSTRUCTOR: Dr. Joan Snyder
Office: J208 Phone: 539-2846 or 532-0709
Office hours: MWF @ 11:00 - 12:00, M @ 1:00 - 3:00
or by appointment

LAB INSTRUCTOR: Mr. Rick Scott
Office: J121 Phone: 539-2953

PREREQUISITE: Biology 30

TRANSFERABILITY: U of A - BOT 199; U of C - BOT 225; U of L BOT 2000

TEXTBOOK: Raven, P.H. et al. 1992. Biology of Plants,
Fifth Ed. Worth Publ., Inc., N.Y.

University of Alberta, 1993. Botany Lab Manual for BT1990

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 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 quizzes and reports. There will be a midterm and final exam, a laboratory final exam, two quizzes and weekly lab quizzes or reports required.

EVALUATION:	Quizzes	15%
	Mid Term Exam	15%
	<u>Final Exam</u>	<u>30%</u>
	Class total	60%
	Lab Reports/Quizzes	20%
	<u>Final lab Exam</u>	<u>20%</u>
	<u>Lab total</u>	<u>40%</u>
	Course total	100%

EQUIPMENT AND SUPPLIES:

A lab coat is required for all laboratory activities.

CLASS SCHEDULE - FALL 1993

<u>WEEK OF</u>		<u>TEXT CHAPT.</u>
Sept 6	Introduction & Plant Cells (SEPT 6 - HOLIDAY)	1, 2, 3, 4
13	Energy in plants: photosynthesis and respiration,	5, 6, 7
20	Vascular plant structure QUIZ #1 (Sept 22)	21, 22, 23, 24
27	Vascular Plant Structure (cont.)	
Oct. 4	Uptake and transport in plants	27, 28
11	Plant growth and development (OCT 11 - HOLIDAY)	20, 25, 26
18	MIDTERM EXAM - OCT 18 Growth and development (cont.)	
25	Plant classification, Bacteria	10, 11
Nov 1	Viruses, fungi, Protista	11, 12, 13
8	Postista (cont.), Bryophytes (NOV 11 - HOLIDAY)	14, 15
15	Seedless Vascular Plants -QUIZ #2 (Nov 15)	16
22	Seed plants	17
29	Plant Evolution	19
Dec 6	People and plants	31

BOTANY 1990
LABORATORY SCHEDULE - FALL 1993

DATE

Sept. 6 / 10	No Lab
13 / 17	#1 - Orientation
20 / 24	#2 - Photosynthesis and respiration
27 / Oct. 1	#3 - Soft stems and intercellular water movement
Oct. 4 / 8	#4 - Woody stems and transpiration
11 / 15	No labs
18 / 22	#5 - Roots and hormone control of plant growth
25 / 29	#6 - Algae
Nov. 1 / 5	#7A - Fungi
8 / 12	#7B & 8 - Bryophytes and Ferns
15 / 19	#9 - Gymnosperms
22 / 26	#10 - Angiosperms reproduction
Nov 29/Dec 3	LAB FINAL EXAM