

**BIOLOGY 200/ FALL 2001
PLANT SCIENCE**

PROFESSOR: DR. H. E. SHEALY, JR.
OFFICE: ROOM 111D, SCIENCE BUILDING
OFFICE HOURS: BY APPOINTMENT
COURSE CREDIT: FOUR CREDIT HOURS
LECTURE/LAB TT 9:25AM – 12NOON, TT 103 SCI BLDG
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COURSE GOALS AND OBJECTIVES: PLANT SCIENCE IS A ONE-SEMESTER COURSE DESIGNED PRIMARILY FOR NON-MAJORS. THE GOAL IN THIS COURSE IS SIMPLY TO INTRODUCE THE STUDENT TO THE IMPORTANCE AND THE UNDERLYING PRINCIPLES GOVERNING PLANT SCIENCE. SPECIAL EMPHASIS WILL BE PLACED ON THE BASIC PROCESSES AND IMPORTANCE OF PLANTS TO THE WORLD THAT WE LIVE IN AS WELL AS OUR COMPLETE DEPENDENCE ON THEM FOR OUR EXISTENCE. TO SUCCESSFULLY COMPLETE THIS COURSE THE STUDENT MUST DEMONSTRATE A KNOWLEDGE AND AN UNDERSTANDING OF:

- HISTORY AND DEVELOPMENT OF PLANT SCIENCE
- BASIC BIOLOGICAL COMPOUNDS AND HOW THEY ARE UTILIZED BY CELLS
- THE CELLULAR PROCESSES AND PLANT TISSUES
- IMPORTANCE OF SOILS AND NUTRIENTS
- THE STRUCTURE AND IMPORTANCE OF FLOWERS, FRUITS, AND SEEDS
- WATER RELATIONSHIPS AND PLANT METABOLISM
- THE BASICS OF PLANT BREEDING AND PLANT TECHNOLOGY
- THE CONCEPTS OF SPECIATION AND EVOLUTION
- BASICS OF PLANT CLASSIFICATION
- PLANTS AND CIVILIZATION
- THE FUNDAMENTALS OF SPECIES INTERACTIONS OR ECOLOGY

TEXT: INTRODUCTORY PLANT BIOLOGY, 8TH EDITION BY KINGSLEY R. STERN. PUBLISHED BY W. C. BROWN, 2000.

LAB: THE TEXTBOOK AND HANDOUTS WILL BE USED FOR THE LABS.

STUDY GUIDE: ON-LINE LEARNING CENTER <http://www.mhhe.com/biosci/pae/botany/stern8e/>

REQUIRED SUPPLIES: SCANTRON SHEETS OR BLUE BOOKS (LARGE SIZE) FROM USCA BOOKSTORE FOR HOUR EXAMS.

METHODS OF EVALUATION: YOU WILL BE OBSERVED IN CLASS DISCUSSIONS, QUESTIONS, AND OTHER CLASSROOM INTERACTIONS. THERE WILL BE NUMEROUS OPPORTUNITIES FOR YOU TO SPEAK AND WRITE ABOUT BIOLOGY...**CLASS DISCUSSIONS AND QUESTIONS ARE ENCOURAGED AND WELCOMED!** THERE WILL BE THREE HOUR EXAMS, FOUR JOURNAL ARTICLES, A LAB PROJECT/PRESENTATION, THREE FIELD TRIPS, AND A COMPREHENSIVE FINAL EXAM.

GRADE COMPONENTS:

LECTURE

THREE HOUR EXAMS.....	55%
FINAL EXAM.....	15%
FOUR JOURNAL ARTICLES.....	10%

LAB

FIELD TRIPS.....	10%
LAB PROJECT/PRESENTATION.....	10%

GRADING SCALE:

100-93 = A; 92-88 = B+; 87-81 = B; 80-76 = C+; 75-70 = C; 69-65 = D+; 64-60 = D; 59-0 = F.

JOURNAL ARTICLES: THIS COMPONENT OF THE CLASS WILL CONSIST OF SELECTING, READING, AND WRITING A SUMMARY OF ONE JOURNAL ARTICLE EACH MONTH. I WILL GIVE MORE INFORMATION ABOUT THIS ASSIGNMENT DURING OUR CLASS MEETINGS AND WE WILL MUTUALLY DECIDE ON THE FORMAT AND DEADLINES.

MAKE-UP EXAMS: THERE ARE NO MAKE-UP EXAMS. SHOULD YOU MISS AN EXAM FOR A DOCUMENTED EXCUSABLE REASON, AN ALTERNATE EXAM MAY BE GIVEN DURING THE LAST WEEK OF CLASSES. ONLY ONE EXAM WILL BE TREATED IN THIS MANNER; ANY OTHER MISSED EXAMS WILL BE COUNTED AS A ZERO.

ATTENDANCE: ATTENDANCE: STUDENTS SHOULD REFER TO THE CURRENT USCA STUDENT HANDBOOK OR USCA BULLETIN REGARDING THE ATTENDANCE POLICY. FOR THIS CLASS YOU ARE ALLOWED FOUR UNEXCUSED ABSENCES OF THE REGULARLY SCHEDULED CLASS/LAB MEETINGS. SINCE EACH MEETING IS ACTUALLY A LECTURE AND A LAB, MISSING A DAY IS NOT BENEFICIAL. IF YOU HAVE MORE THAN FOUR UNEXCUSED ABSENCES I MAY ASSIGN THE GRADE OF "F" FOR THE COURSE. I TAKE ROLL FOR EACH CLASS. THEREFORE, I URGE YOU TO ATTEND ALL CLASSES, LABS, FIELD TRIPS AND TO BE ON TIME.

DISABILITY STATEMENT: IF YOU HAVE A PHYSICAL, PSYCHOLOGICAL, AND /OR LEARNING DISABILITY WHICH MIGHT AFFECT YOUR PERFORMANCE IN THIS CLASS, PLEASE CONTACT THE OFFICE OF DISABILITY SERVICES, 126A B&E, (803) 641-3609, AS SOON AS POSSIBLE. THE DISABILITY SERVICES OFFICE WILL DETERMINE APPROPRIATE ACCOMMODATIONS BASED ON MEDICAL DOCUMENTATION.

WRITING CENTER: USCA PROVIDES A WRITING CENTER LOCATED ON ROOM 201 OF THE H&SS BUILDING. IF YOU NEED EXTRA ASSISTANCE ON ANY WRITING ASSIGNMENT FOR THIS OR ANY OTHER CLASS THAT YOU ARE TAKING, PLEASE TRY THE WRITING CENTER.

WRITING PORTFOLIO: ALSO REMEMBER THAT WRITTEN WORK THAT YOU COMPLETE FOR THIS CLASS CAN BE INCLUDED IN YOUR WRITING PORTFOLIO REQUIREMENT. FOR FURTHER INFORMATION ON THE WRITING PORTFOLIO REQUIREMENT, PLEASE CONSULT YOUR CURRENT USCA BULLETIN.

TENTATIVE LECTURE SCHEDULE

WEEK	DATE	TOPIC	CHAPTER	LAB
1	21 AUG 23	INTRODUCTION HISTORY, LIFE, CELLS	1 2,3	NO LAB
2	28 30	TISSUES ROOTS & SOILS	4 5	TBA
3	4 SEPT 6	FIELD TRIP I-TBA STEMS & LEAVES	6,7	TBA
4	11 13	FLOWERS SEEDS	8 8	TBA
5	18 20	FRUITS HOURLY EXAM I	8	TBA
6	25 27	WATER PLANT BIOTECHNIQUE	9 14	TBA
7	1 OCT 2 4	<u>LAST DAY TO DROP WITH A "W"</u> PLANT CLASSIFICATION " /TOPIC OF PAPER DUE	16,17,18	TBA
8	9 11	FALL BREAK FIELD TRIP II -TBA		TBA
9	16 18	FUNGI/LICHENS BRYOPHYTES/FERNS	19 20/21	TBA
10	23 25	GYMNOSPERMS FLOWERING PLANTS	22 23	TBA
11	30 1 NOV	HOURLY EXAM II PLANTS & CIVILIZATION	24	TBA
12	6 8	PLANTS & CIVILIZATION ECOLOGY/PAPERS DUE	24 25	TBA
13	13 15	FIELD TRIP III- TBA STUDENTPRESENTATIONS		
14	20 22	HOURLY EXAM III THANKSGIVING HOLIDAY		
15	27 29	STUDENT PRESENTATIONS STUDENT PRESENTATIONS/LAST CLASS REVIEW		
16	3 DEC 4/5	LAST DAY OF CLASSES/STUDENT PRESENTATION/REVIEW READING DAYS		
17	11	FINAL EXAM - TUESDAY 8 AM		

LABORATORY PROJECT/PAPER
BIOLOGY 200
FALL 2001

THIS COMPONENT OF THE CLASS WILL CONSIST OF A PAPER WHICH WILL BE SUBMITTED TO YOUR PROFESSOR AND PRESENTED ORALLY TO THE CLASS. THE PROJECT MAY BE THE RESULT OF YOUR OWN PERSONAL LABORATORY RESEARCH OR IT MAY BE A LIBRARY/LITERATURE RESEARCH PROJECT. REGARDLESS, THE TEXT SHOULD BE AT LEAST 6 AND NO MORE THAN 12 TYPEWRITTEN DOUBLE-SPACED PAGES. TITLE PAGES, REFERENCE PAGES, AND ILLUSTRATIONS WILL BE IN ADDITION TO THE 6 TO 12 TEXT PAGES. THE CLASS PRESENTATION SHOULD BE 10 TO 15 MINUTES LONG.

SIMPLY STATED THE PAPER MUST BE ON A TOPIC ABOUT **PLANTS**. THE TOPIC CAN BE AS DIVERSE AS PLANTS IN LITERATURE, FORESTRY, AGRICULTURE, HORTICULTURE, THE ECONOMIC IMPORTANCE OF A PLANT, CONSERVATION, GREEN POLITICS (LOCAL , STATE, NATIONAL, GLOBAL), HERBAL MEDICINE, PLANT FOLKLORE, PLANT BREEDING, PLANT CLONING, ETC, ETC, ETC. REMEMBER TO CHOOSE A TOPIC THAT INTERESTS YOU AND HAVE FUN LEARNING AND SHARING YOUR KNOWLEDGE WITH THE CLASS!

YOU WILL BE GRADED ON BOTH THE WRITTEN PAPER AND THE ORAL PRESENTATION. THE FORMAT OF THE PAPER MAY VARY DEPENDING ON THE TOPIC AND THE APPROACH THAT YOU USE. HOWEVER, IF YOU DO A RESEARCH TOPIC THE PAPER SHOULD BE WRITTEN IN THE STYLE/FORMAT OF A STANDARD SCIENTIFIC JOURNAL. YOU WILL BE GIVEN AN UNDERGRADUATE RESEARCH GUIDE TO ASSIST WITH THE PREPARATION AND PRESENTATION OF THE PAPER.

THE **TOPIC** OF THE PAPER IS DUE ON OR BEFORE THURSDAY, **OCTOBER 4**, AND THE **PAPER IS DUE** AND MUST BE TURNED IN ON OR BEFORE THURSDAY, **NOVEMBER 8**. **PRESENTATIONS** IN CLASS WILL BEGIN ON THURSDAY, **NOVEMBER 15**. YOU MAY BE PENALIZED FOR BEING LATE IN SUBMITTING YOUR TOPIC OR PAPER PAST THESE DATES.

IF YOU NEED ANY SPECIAL AUDIO-VISUAL EQUIPMENT SUCH AS AN OVERHEAD PROJECTOR, A SLIDE PROJECTOR, OR A VCR, PLEASE LET THE PROFESSOR KNOW IN ADVANCE OF YOUR PRESENTATION.

IF YOU HAVE ANY QUESTIONS ABOUT THIS COMPONENT OF THE COURSE, PLEASE CONSULT WITH YOUR PROFESSOR. THIS PART OF THE COURSE IS SUPPOSED TO BE INFORMATIVE AND ENJOYABLE, SO DON'T GET TOO STRESSED OVER IT!

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