

# Botany 112 The Plant Kingdom

## Summer 2007

**Instructor: Dr. Gillian Schultz**  
**Office Hours: M W 10:30-11:00**

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**Office: SAM 217**

**Class Meetings:**

	Class Hours	Days	Room
Lecture	8:00- 10:20	M,W	SAM 202
Lab	8:00-10:05	T Th	SAM 305

**Required Text:** Introductory Plant Biology, 10<sup>th</sup> Ed. K. Stern  
Laboratory Exercises for Botany 112. Available in the copy center (Room 3105).

**PREREQ:** Eligibility for MAT 084 and ENG 101.

**Course content:** Introduction to the diversity and life processes of plants. This course emphasizes anatomy, physiology, growth, reproduction, evolution, ecology and diversity of green algae and terrestrial plants. This course satisfies the lab science requirement for the AA Degree. Science Lab Fee applies.. Attached is a course outline for the lecture and lab topics and reading assignments. Dates are approximate and subject to change.

**Summer Calender/Administrative Dates:**

June 25	Classes start
July 4	HOLIDAY – No class
July 6	Last day to withdraw without a “W” on your transcript
August 4	Last day to change credit status and/or withdraw (with a “W” on the transcript)
August 16	Final exam

**Academic Conduct:** Cheating, plagiarism and other forms of academic misconduct will not be tolerated. If you are caught cheating, you will be subject to the maximum form of academic discipline including but not limited to a failing grade on the assignment/quiz/exam or for the course.

**Class conduct:** The use of cell phones, pagers or other electronic personal communication devices is not permitted during either lecture or laboratory time. Please place all electronic devices on “vibrate.” You will be allowed one infraction. For every incident after that, you will lose 10 points in the course.

-No visitors are allowed in the classroom without the approval of the instructor.

-The use of tape recorders during lecture is permitted as long as the owner is present.

While I encourage the active participation of the students in lecture, please do not have personal conversations during this time. If this becomes a persistent problem, I will ask you to leave the first time. The second time, you will be subject to disciplinary behavior.

**Attendance:**

While there is no grade for attendance to lecture, attendance is strongly recommended. You are responsible for all of the material covered in lectures and quiz questions will be taken mostly from lecture material. If you miss a class, please contact me as soon as possible by email. It is strongly recommended that you have a class buddy who can give you notes. In addition, quizzes will be held at the beginning of labs every other week (see schedule) and will begin promptly at the beginning of class. Therefore it is in your interest to be ON TIME. There will be **NO MAKE-UP** quizzes

**Points and Grading:** Grades will be based upon total points earned on assignments, quizzes and exams.

Point Breakdown	Total
Quizzes 3 (75 pts each)	150 *
Laboratory exercises- Various points	115*
Cell worksheet	20
Plant report	75
Field Trip	15
TOTAL	465

\* indicates that the lowest grade will be dropped.

Grades will be calculated according to the percentage of total points possible that you have earned according to the following scale:

Final % Score	Equivalency	Letter Grade
95- 100	4.0	A
90- <95	3.5-3.9	A-
87- <90	3.2-3.4	B+
83- <87	2.9-3.1	B
80- <83	2.5-2.8	B-
77- <80	2.2-2.4	C+
73- <77	1.9-2.1	C
70- <73	1.5-1.8	C-
67- <70	1.2-1.4	D+
63- <67	0.9-1.1	D
60- <63	0.7-0.8	D-
<60	Less than .07	E

The pass fail option for grading is allowed for this course. Pass (P) signifies a performance level of at least 2.0. P allows credit for the course but will not be considered in your GPA.

Students who withdraw from classes during the third and fourth weeks of the quarter will receive W grades. The W grade is not used in the calculation of GPA. Z grades are assigned only under very specific circumstances and must be discussed with me in advance. You should do this before your option for withdrawing has expired.

### COURSEWORK:

**Quizzes:** There will be 4 quizzes in lecture (see schedule). These will be designed to ensure that you are keeping up with the reading and preparing for class and will cover the previous week's lectures. **There will be NO MAKE-UP quizzes.** If you miss one quiz (with a legitimate reason) then your other quiz scores will be averaged to provide a score. Questions may include matching, multiple choice, definitions, diagrams, True/false. You will need to bring scantrons for these quizzes **FORM 882- E.**

**Laboratory:** Active participation in laboratories is required. You should plan on spending the entire time in the classroom. If you complete the labs prior to the end of the period, you can work on reviewing lecture notes, studying and discussing questions or problems with me or your classmates. You are expected to bring your lab manual and a notebook to every laboratory meeting for drawings and observations. Labs will be due one week after their in-class completion. Answers should be written in clear, complete sentences. **Late labs will not be accepted.**

**Grade disputes:** if you think you deserve more points on your paper or test, you must state so in writing (mistakes in arithmetic excepted). Type your reasons on a piece of paper and include a passage from the textbook for justification (class notes and class tape recordings not acceptable justification). You must include the original graded assignment with your petition. Only individual disputes will be acknowledged. Arguments made by one student on behalf of another will not be considered. **IN ANY DISPUTE, OUR TEXTBOOK WILL BE USED AS FINAL AUTHORITY.** Grade disputes must be presented within week of receiving the graded assignment from me. After each quiz is returned, there will be a "cooling off" period. With the exception of arithmetic issues, you must save all disputes and/or discussions of the quiz until the next class period.

### Course withdrawal:

If you decide to drop this course for any reason, you must officially withdraw with the registrar or you will receive a failing grade in the course. I do not give V (instructor's withdrawal) grades or Incompletes unless there have been extreme circumstances such as a family death or prolonged illness.

TO SUCCEED IN THIS CLASS, YOU WILL NEED TO DO THE FOLLOWING:

- 1) Attend lectures and labs
- 2) Take good notes.
- 3) Skim the reading prior to each lecture and REREAD it after lecture, focussing on what was emphasized in class.
- 4) Make a vocabulary list for each lecture
- 5) Form study groups with other students
- 6) Seek help from me

<b>Week</b>	<b>Date</b>	<b>Lecture Topics</b>	<b>Lab Exercises</b>	<b>Readings*</b>
1	<b>M</b> 6/25	Course introduction & overview Basic chemistry of life		Ch 1: 1-9 Ch 2: 15-27
	<b>Tu</b> 6/26		#1 Microscope use & making slides	
	<b>W</b> 6/27	Plant cell structure		Ch 3
	<b>Th</b> 6/28		#2 Plant cell structure & water relations	Ch 3 Ch 9:151-152 (156-157)
2	<b>M</b> 7/2	Tissues found throughout plants, roots and stems		Ch 4, 5, 6
	<b>Tu</b> 7/3		#3 Plant anatomy part 1	
	<b>W</b> 7/4	NO CLASS		
	<b>Th</b> 7/5		#3 plant anatomy part 2	
3	<b>M</b> 7/9	Stems, leaves Experimental design		Ch 6 Continued Ch 7
	<b>Tu</b> 7/10		#4 Plant morphology	
	<b>W</b> 7/11	Introduction to water movement Review session		Ch 9
	<b>Th</b> 7/12		Exam Ch 1-7	
4	<b>M</b> 7/16	Water transport and Sugar transport		Ch 9
	<b>Tu</b> 7/17		<b># 5 Transpiration</b>	
	<b>W</b> 7/18	Photosynthesis		Ch 10
	<b>Th</b> 7/19		<b>TBA</b>	
5	<b>M</b> 7/23	Photosynthesis and Metabolism		Ch 10:
	<b>Tu</b> 7/24		#6 <i>Photosynthesis</i>	
	<b>W</b> 7/25	Plant Evolution		Ch 15
	<b>Th</b> 7/26		<b># 7 Taxonomy and Systematics</b>	Ch 16
6	<b>M</b> 7/30	Protists, Fungi and Bryophytes,		Ch 18
	<b>Tu</b> 7/31		<b># 8 Survey of Diversity – Archaea, Protista and Fungi</b>	--
	<b>W</b> 8/1	Bryophytes and Seedless Vascular Plants <b>EXAM II</b>		Ch 20 and 21
	<b>Th</b> 8/2		#7 Sexual reproduction: mosses and ferns	
7	<b>M</b> 8/6	Gymnosperms and Angiosperms		Ch 23, 8
	<b>Tu</b> 8/7		<b>Field Trip to UW Greenhouse</b>	
	<b>W</b> 8/8	Angiosperms		
	<b>Th</b> 8/9		#8 Sexual reproduction: conifers and representative angiosperms	
8	<b>M</b> 8/13	Ecology		Ch 24 and 25
	<b>Tu</b> 8/14		Field Trip TBA	
	<b>W</b> 8/15	Presentations	,	--
	<b>Th</b> 8/16		<b>Exam 3</b>	