Botany (Biology 300)
Fall Semester 2016 - Syllabus

Instructor: Dr. Jane Ellis
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Office: 215 HWWE
Office Phone: 953-7112
Office Hours: By Appointment

Lecture Time and Location:
Botany will meet in Room 207 HWWE from 9:55 to 11:10am on Tuesday and Thursday each week. Botany Lab will meet in Room 207 HWWE from 1:00-4:00pm on Thursdays.

Course Description and Overview:
Botany will describe the gross morphology, life history, taxonomy, and evolution of representative fungi, bryophytes, and vascular plants. Lecture - three hours per week; laboratory three hours per week. Prerequisites: BIOL 111/111L and BIOL 112/112L, and BIOL 211/211D. Co-requisites or prerequisites: BIOL 305, MATH 250 or equivalent course in statistics. This is a four credit hour course.

Course Goals:
This course will introduce the student to the gross morphology, life history, taxonomy, and evolution of representative algae, fungi, bryophytes, and vascular plants. It will also introduce economic and medicinal uses of plants.

Student Learning Outcomes:
- Describe plant cells, plant structure, tissues, organs, and explain their functional and adaptive characteristics.
- Compare the vegetative characteristics of plants.
- Describe the chemical makeup of plants.
- Analyze the process of photosynthesis.
- Describe plant diversity and evolution.
- Compare the characteristics, structures and examples of representative fungi, bryophytes, and seedless vascular plants.
- Compare the characteristics, structures and examples of representative gymnosperms.
- Compare the characteristics, structures and examples of representative angiosperms.
- Describe and analyze plant regulation, growth and development.
- Analyze important economic and medicinal plants and fungi.

Materials:
- **Text:** Raven – Biology of Plants by Evert and Eichhorn (8th Ed) W. H. Freedman & Co.
- **Current Literature:** Assigned peer-reviewed journal articles and other readings
- **Ancillary Information**: Assigned readings, videos, and PowerPoint slides will be provided in OAKS and through Internet links.

Instructional Methods:
Instructional methods will include lecture, discussion, group work, videos, and student presentations.

Grading and Evaluation:
Tests and exams may consist of objective questions, matching, multiple choice, fill in the blank, definitions, short answer, and/or essay questions. You are treated as a professional in the course. Accordingly, the grading is strict, but fair. Reading directions and grading criteria provided for each assignment is the key to understanding how you will be graded. Also following those directions is the key to doing well. Rubrics for grading assignments, papers and presentations can be found on OAKS.

Use of Cell Phones and Computers:
The instructor will determine student use of cell phones and computers for instructional purposes during lecture and labs.

Grade Scale		Grade Computation
93-100 %	A	**Major Tests (3)** = 40% of the overall grade
90-92 %	A-	
87-89 %	B+	**Research Papers and Presentations =** 10% of the overall grade
83-86 %	B	
80-82 %	B-	**Assignments, Quizzes, Participation** = 5% of the overall grade
77-79 %	C+	
73-76 %	C	**Lab** = 25% of the overall grade based on lab practicals and lab assignments
70-72 %	C-	
67-69 %	D+	**Final Cumulative Exam** = 20% of the overall grade
63-66 %	D	
60-62 %	D-	**All grades will be posted on OAKS.**
0 – 59 %	F	

Attendance Policy:
Attendance in this class is essential to your understanding of the material presented in the course therefore students are expected to attend class. You will be responsible for all material regardless of the reason for missing class. There will be **no make-ups** given for quizzes, in-class assignments or tests. Students with extenuating circumstances must contact me **in advance** of the class or exam that must be missed to discuss their options.

Center for Student Learning:
I encourage you to utilize the Center for Student Learning's (CSL) academic support services for assistance in study strategies, speaking & writing strategies, and course content. They offer tutoring, Supplemental Instruction, study strategy appointments, and workshops. Students of all abilities have become more successful using these programs throughout their academic career and the services are available to you at no additional cost. For more information regarding these services please visit the CSL website at http://csl.cofc.edu or call (843) 953-5635.

Center for Disability Services: (http://disabilityservices.cofc.edu/for-faculty/faqs.php)
Any student eligible for and needing accommodations because of a disability is requested to speak with the professor during the first two weeks of class or as soon as the student has been approved for services so that reasonable accommodations can be arranged. The College will make reasonable accommodations for persons with documented disabilities. Students should apply for services at the Center for Disability Services/SNAP located on the first floor of the Lightsey Center, Suite 104. Students approved for accommodations are responsible for notifying me as soon as possible and for contacting me one week before accommodation is needed. This College abides by section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. If you have a documented disability that may have some impact on your work in this class and for which you may require accommodations, please see an administrator at the Center of Disability Services/SNAP, 843.953.1431 or me so that such accommodation may be arranged.

College of Charleston Honor Code and Academic Integrity:
Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when identified, are investigated. Each incident will be examined to determine the degree of deception involved. Incidents where the instructor determines the student's actions are related more to a misunderstanding will be handled by the instructor. A written intervention designed to help prevent the student from repeating the error will be given to the student. The intervention, submitted by form and signed both by the instructor and the student, will be forwarded to the Dean of Students and placed in the student's file. Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XXF in the course, indicating failure of the course due to academic dishonesty. This grade will appear on the student's transcript for two years after which the student may petition for the XX to be expunged. The F is permanent. The student may also be placed on disciplinary probation, suspended (temporary removal) or expelled (permanent removal) from the College by the Honor Board. Students should be aware that unauthorized collaboration--working together without permission-- is a form of cheating. Unless the instructor specifies that students can work together on an

assignment, quiz and/or test, no collaboration during the completion of the assignment is permitted. Other forms of cheating include possessing or using an unauthorized study aid (which could include accessing information via a cell phone or computer), copying from others' exams, fabricating data, and giving unauthorized assistance. Research conducted and/or papers written for other classes cannot be used in whole or in part for any assignment in this class without obtaining prior permission from the instructor. Students can find the complete Honor Code and all related processes in the Student Handbook at http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php

Course Schedule (Subject to Change)
Class Meets on Tuesdays and Thursdays 9:55-11:10am

Week	Topic	Chapters (Raven: Bio of Pl.) Also see OAKS
Aug. 23	Introduction, Plant Cells and Structure	Ch. 3
Aug. 30	*(Monday, Aug. 29 – last day to drop/add)* Vegetative Characteristics Plant Structure, Growth and Development	 Chs. 22-26
Sept. 6	Plant Structure, Growth and Development (Continued) Regulating Growth and Development	Chs. 22-26 Ch. 27
Sept. 13	Plant Chemistry Light and Pigments	Chs. 2, 7 Ch. 7
Sept. 20	**TEST I (Tuesday, Sept. 20)** Photosynthesis	 Ch. 7
Sept. 27	Photosynthesis (Continued) Plant Diversity and Evolution	Ch. 7 Ch. 12
Oct. 4	Fungi, Bryophytes	Ch. 14, 16
Oct. 11	Bryophytes *Economically Important Plant or Invasive Species Papers and Presentations Due (Thursday)*	Ch. 16
Oct. 18	Seedless Vascular Plants, Gymnosperms	Ch. 17, 18
Oct. 25	Gymnosperms (Continued), Angiosperms **TEST II (Thursday, Oct. 27)** *(last day to withdraw with W)*	Chs. 18, 19
Nov. 1	Angiosperms (Continued)	Chs. 19, 20
Nov. 8	FALL BREAK (No Class on Tuesday, Nov. 8) Plant Secondary Compounds	Notes, Ch. 21
Nov. 15	Plant Secondary Compounds (Continued) Medicinal and Economic Plants	Notes, Ch. 21
Nov. 22	**TEST III (Tuesday, Nov. 22)** Thanksgiving Holidays *(No class on Thursday, Nov. 24)*	
Nov. 29	Medicinal and Economic Plants (Continued) *Medicinal Plant Papers and Presentations Due (Thursday)*	Notes, Ch. 21
Dec. 6 Dec. 8	Reading Day **EXAM (Thursday) 8:00-11:00am**	