**BSC 360 PLANT BIOLOGY FALL 2015**

**Dr. Juan M. López-Bautista**

**309 Mary Harmon Bryant Hall**

**Ph 348-1791, email:** [**jlopez@ua.edu**](mailto:botany@ua.edu)

**Course Web page:** <http://phycolab.ua.edu> (under Teaching tab)

**Office Hours:** MW, 9-19 AM or by appointment

**Sessions:** **Lectures T&Th 8:00-9:15 BY 202; Laboratory T 1:00-3:45 SEC 2410**

**Required Texts** Evert and Eichhorn, Biology of Plants, 8th ed., Freeman Co. ISBN 1-4292-1961-0

Evert, Eichhorn and Perry, Laboratory Topics in botany, Freeman, ISBN 1464118108

**Optional texts** Rushforth et al. A Photographic Atlas for the Botany Lab, Morton Co ISBN 978-0-89582-948-1

**Supplies** **Lecture Notes**, **Clicker**; one 2” three-ring binder

**Prerequisites** BSC114/115 AND BSC116/117 OR BSC118 AND BSC120.

**Attendance policy:** **Attendance is required for all lectures and lab sessions.** Absences will reduce grade.

**Course description:** Introduction to the biology of plants with emphasis on their development, evolution, and ecology. Includes laboratory

**Objectives**: The goal of this 4 Cr course is to introduce students to the science of plants. Student learning outcomes: at the end of this course, students will be able to recognize the biological characteristics of the major groups of plants, their structure, function, development, systematics, evolution, and ecological distribution; identify correctly the most coomon groups of plants; and critically evaluate and interpret scientific manuscripts used to construct written reports. Registration required for lecture and lab. Two one-hour and 15 min lectures and one three-hour laboratory.

**Examinations:** There will be four examinations (60%). Justified make-up examinations may be arranged.

**Laboratory:** Students are expected to turn in lab reports at the end of each session for grading (20%), with a Midterm Lab Exam (10%) and a Final Lab Exam (10%).

**60% Three Lecture Exams and Final**

**20% Lab reports**

**10% Midterm Lab Exam**

**10% Final Lab Exam**

**Graduate Assistant: James T. Melton III**

**Office: 409 Mary Harmon Bryant Hall**

**Phone 348-5828**

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**Office hours:**

**LABORATORY ASSIGNMENTS AND POLICIES:** BSC 360 is a combined lecture/laboratory course. **Students are required to enroll in both the lecture and laboratory portions of the class**. Students with an excused absence from lab should contact the instructor within 48 hours of the missed lab. **ATTENDANCE IN LABORATORY IS MANDATORY FOR ALL LABORATORY MEETINGS. THERE ARE NO MAKE-UP LABS!** If you miss a laboratory **without a documented excuse** you will automatically **receive a zero** for that week’s lab assignment or lab exam.

**Grading**: Grades for undergraduates will be based on a percentage:

98-100 A+ 92-97.9 A 90-91.9 A-

88-89.9 B+ 82-87.9 B 80-81.9 B-

78-79.9 C+ 72-77.9 C 70-71.9 C-

68-69.9 D+ 62-67.9 D 60-61.9 D-

<60 F

**Policy on Missed Exams and other Coursework:** Missed exams can be taken at the end of the semester with valid excuses (doctors, hospitals, court, etc), check your syllabus for the time and place for the make-ups. No make-ups are given for missed lectures or laboratories; with valid excuses your missed lecture or laboratory will not count against you. Up to three valid excuses for missed **or** incomplete lab sessions will be allowed; if you are over this number you will need to set an appointment and discuss your status (incomplete grade, deferred examinations, medical leave).

MAKE UP EXAMS (at my office): Wed Dec 2, 3PM

**Extra Credit Opportunities:** Optional extra points will be given during the semester for designated seminar attendance.

**Disability accommodations:** If you are registered with the Office of Disability Services, please make an appointment with me as soon as possible to discuss any course accommodations that may be necessary. If you have a disability but have not contacted the Office of Disability Services, please call 348-4285 or visit 133B Martha Parham East (www.ods.ua.edu) to register for services. **Students need to set up all exams – including the final exam - at ODS during the first two (2) weeks of the semester to ensure that they have a spot for testing.**

**Code of Conduct:** All students in attendance at the University of Alabama are expected to be honorable and to observe standards of conduct appropriate to a community of scholars. Academic misconduct includes all acts of dishonesty in any academically related matter and any knowing or intentional help or attempt to help, or conspiracy to help, another student. The Academic Misconduct Disciplinary Policy will be followed in the event of academic misconduct.

**Study Week:** In compliance with study week (dead week): “The week immediately preceding the final examination period each semester is reserved as a time in which students may concentrate on completing course work and preparing for final examinations. Only laboratory examinations, omitted from the Final Examination Schedule, are permitted during Study Week. The University prohibits all other examinations and extended assignments during Study Week”.

**Posting of grades**: Grades will not be posted. No grades will be given by e-mail, over the phone, or to a friend. In order to receive your grade you must see me during class, laboratory, office hours, or after class.

***Schedule of LECTURES and LABs are tentative and subject to change***

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Lecture Topic** | **Chapter in text**  ***Biol Plants*** | **Laboratory Exercise**  ***Laboratory Topics in Botany*** |
| 8/20 | Introduction to course; pre-test | 1 |  |
| 8/25 | Plant Cells | 3 | Topics 1 and 4: Microscopes and Plant cells |
| 8/27 | Respiration | 6 |  |
| 9/1 | Photosynthesis | 7 | Botanical Illustration |
| 9/3 | Systematics | 12 |  |
| 9/8 | Systematics | 12 | Topic 8: Photosynthesis |
| 9/10 | Prokaryotes and Virus | 13 |  |
| 9/15 | Fungi | 14 | Topic 11: Prokaryotes |
| 9/17 | EXAM 1 (INTRO TO PROKARYOTES) |  |  |
| 9/22 | Fungi | 14 | Topic 12: Fungi |
| 9/24 | Algae | 15 |  |
| 9/29 | Algae | 15 | Topic 13 and 14: Algae |
| 10/1 | Bryophytes | 16 |  |
| 10/6 | Bryophytes | 16 | Topic 15: Bryophytes / LAB MIDTERM |
| 10/8 | Embryogenesis, Seeds and Tissues | 22, 23 |  |
| 10/13 | Root | 24 | Topic 20 and 21: Germination and Tissues |
| 10/15 | EXAM 2 (FUNGI TO BRYOPHYTES) |  |  |
| 10/16 | FRIDAY FIELDTRIP TO THE BIRMINGHAM BOTANICAL GARDENS (Noon to 5 PM) | | |
| 10/20 | Shoot | 25 | Topic 22 and 23: Root and Stem |
| 10/22 | Secondary Growth | 26 |  |
| 10/27 | Wood | 26 | Topic 24: Shoot and Leaves |
| 10/29 | CLASS DISMISSED – STUDY BREAK | | |
| 11/3 | Ferns and Fern Allies | 17 | Topic 25 and 26: Secondary Growth |
| 11/5 | Fern and Fern Allies | 17 |  |
| 11/10 | Gymnosperms | 18 | Topic 16: Ferns and Fern allies |
| 11/12 | Gymnosperms | 18 |  |
| 11/17 | Angiosperms | 19 | Topic 17: Gymnosperms |
| 11/19 | Angiosperms | 19 |  |
| 11/24 | EXAM 3 (TISSUES TO SECONDARY GROWTH) |  | Topic 18: Angiosperms Flower |
| 11/26 | CLASS DISMISSED THANKSGIVING | | |
| 12/1 | Angiosperm Evolution | 20 | Topic 19: Fruits and Seeds / LAB FINAL |
| 12/3 | Plants and People | 21 |  |
| 12/10 | 11:30 AM – 2 PM FINAL EXAM (FERNS TO PLANTS AND PEOPLE) | | |

*Deferred Examinations For Fall 2015: Tuesday, January 19, 2016 at 2PM*

*UA's primary communication tool for sending out information is through its web site at*[*www.ua.edu*](http://www.ua.edu/)*.  In the event of an emergency, students should consult this site for further directions.*

*In the event of an emergency, the instructor will use BBL to provide additional information.*