

BIO 202 WOODY PLANTS CONCEPTS SPRING 2015

Welcome to BIO 202. This is a Mercer County Community College course. We look forward to working with you this semester.^[1]_{SEP}

BIO 202 is a 3-credit laboratory course. The grade you get will appear on your Mercer County Community College transcript and count towards an AA degree. Grades will be assigned based on homework (20%), plant ID quizzes (20%), participation (10%), and the two exams (50%).

Logistics, Assignments and Grading: Each week there will be a class on Tuesday and Thursday from 6:00 to 8:00 pm. Attendance is mandatory for all classes. If you miss class due to circumstances beyond your control, let the instructor know or have a friend let the instructor know, and be sure to get copies of the materials of the class you missed. The course will be taught by lectures, and you will be given lecture notes and handouts. Homework assignments will be handed out. The homework assignments are listed overleaf and **are due on the given date**. Late homeworks will be accepted at the next class with a penalty of 30%, and not accepted after that. There will be two written unit exams and five plant ID quizzes. We will return your graded homeworks, plant ID quizzes, and exams, one week after they are handed in. Please write the date, the assignment number and your first and last names on *every page* of your homeworks and exams.

Classroom Behavior and Academic Integrity: You are a college student, and responsible for your education. A necessary aspect of that education is that the behavior of the students and professors towards each other must be responsible, serious and respectful at all times, and that the only thing discussed in the classroom is the course work. Our class time together is precious. Here are some rules for your behavior. (1) Show up to class, get there on time, and stay for the whole class unless called out by an officer. (2) Bring your notebook and course books to every class. (3) Pay attention to the professor, do not have conversations with each other which disrupt the professor's ability to teach and the ability of the other students in the class to pay attention. (4) If you do not understand something, ask! If you have a question it is likely others have the same questions. Ask it preferably during class, because there is not always time at the end. (5) Do your homework! You are here to learn the subject matter, and homework is a very important part of that. (6) Turn your homework in on time, carefully done and neatly written. We know that some matters are not always in your control, but please do as well as you can. If you cannot come to class, ask a friend to tell us and to pick up course materials for you. Anyone who decides to drop the course must either let us know **in writing** or must let the prison teaching staff know; they will tell us. If you do so, we will withdraw you from the class. If you do not (but don't do the work and stop showing up) you will get a grade of F for the course which will appear on your academic transcript. Always let the teaching staff know whenever there is a problem.^[1]_{SEP}

Although we encourage you to study together, your homework must represent your own work only. You must not copy the work of others on exams. It does you no good, it wastes everyone's time, and it is cause for your removal from the course and from the privilege of taking courses.

Class Schedule

Unit/Date	Topic	HW/ID exams	Instructor(s)
Overview/Plant systems			
2/3	Introduction to ecology and evolution		Howe
2/5	Introduction to plant evolution and morphology		Howe
2/10	Food plants and agricultural industry	HW1 due	Carey
2/12	Wood and horticulture industry		Carey
2/17	Wood structure, plant diseases/parasites	HW2 due	Howe
2/19	Succession, forest management		Howe and Trierweiler
Leaves/Photosynthesis/Transport			
2/24	Photosynthesis, carbon cycle, food webs	ID exam #1	Trierweiler
2/26	Transpiration, stomata, water cycle		Trierweiler
3/3	Operating in low sunlight		Trierweiler
3/5	Roots and mutualisms	HW3 due	Howe and Batterman
3/10	Nutrients, soil, decomposers		Batterman
3/12	Nutrient limitations, agriculture	ID exam #2	Batterman
Plant reproduction			
3/17	Introduction to plant reproduction		Batterman
3/19	Control of growth and flowering		Batterman
3/24	Flowers	HW4 due	Jonsson
3/26	Fruit, coevolution with pollinators/dispersers		Jonsson
3/31	Review for Exam 1	ID exam #3	Jonsson and Treuer
4/2	Exam 1		Schumer
Plant Ecology			
4/7	Biogeography		Schumer
4/9	Stressful environments and disturbances		Schumer
4/14	Nitrogen fixation		Schumer
4/16	Secondary compounds and plant defenses	HW5 due	Schumer and Baumgarten
4/21	Plant strategies and maintenance of diversity		Baumgarten
Plant Evolution			
4/23	Conifer reproduction	ID exam #4	Baumgarten
4/28	Plant evolution – gymnosperms		Baumgarten
4/30	Plant evolution – angiosperms		Baumgarten
5/5	Polyploidy and hybridization		Treuer
5/7	Evolution of woody plants, wood components	HW6 due	Treuer
5/12	Review for Exam 2		Treuer
5/14	Exam 2	ID exam #5	Treuer