

Syllabus

Plants and People; PBIO 103, 05398
11:10 -12:00 MTuWTh Winter Quarter, 2006-2007

Instructor: Dr. Arthur Trese

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Home page; <https://blackboard.ohiou.edu/>

Username = Oak ID (two letters, 6numbers)

Password = current OAK password

Office Hours: Tuesday & Wednesday 3:00 - 4:00 or by appointment

TEXT: There is no required text for this course. All of the material you will be expected to learn will come from your class notes and material available through your course homepage.

COURSE GOALS: *Plants and People* is offered within the TIER II course selection, under the grouping of Applied Science and Technology. The goal of the Tier II system is to maintain a degree of General Education, or Liberal Arts, in your undergraduate education. This course is designed to increase your knowledge about, and appreciation for, the biology of plants. We will explore the pivotal role that plants play in the every day life of humans, and, conversely, the pivotal role that man has come to play in the health and survival of plants. I certainly do not intend to cover all of the ways in which we rely on plants for our survival and comfort, etc., but instead I will cover several important themes. A more detailed list of the topics covered is found on the back of this sheet. I will also take the opportunity to cover some current issues in biology that are not strictly limited to plant biology, but that I feel you should know something about.

MISCELLANEOUS: There will be one quiz, for 30 points, 2 midterm exams and a non-cumulative final, each worth 100 points (330 point total). The exams are mixtures of essay, short sentence answer, fill in the blank, matching, and multiple-choice questions. There will also be 30 points worth of pop-assignments to be done in class, either alone or in small groups. Generally, these will not be graded, but given credit for completion. Obviously, a missed assignment receives a score of zero. I expect attendance at all class meetings. Attendance will count as part of your grade as explained below, but will be worth a total of 40 points. Therefore, your final grade will combine your pop-assignments (30 points) one quiz and three exams (330 points), attendance (40) for a total possible of 400 points. Your final grade will be based upon a standard scale: A (92-100%), A- (90-91.9), B+ (88 -89.9), B (82- 87.9), B- (80-81.9), etc. A failing grade will be assigned if you course final average is below 60. Missed exams will not be made up without adequate proof of **legitimate** student absence as defined by the **University Handbook**. I will require a written, valid excuse from someone in authority relative to the situation. E.g., if an examination were missed due to an illness, a note from the attending doctor would be required, stating that the nature of the illness would warrant missing class. If an examination were missed because of a death in the family, a note from someone in your family, providing a phone number would be acceptable. Travel arrangements are not acceptable reasons for taking a makeup exam, or rescheduling your exam time. Cheating of any kind, including misrepresenting why an exam was missed, is a violation of academic honesty and will result in dismissal from the class with a grade of F.

Attendance policy: Out of a possible 40 points

0 missed days	=	40 points (100%)
1 missed day		38 (95%)
2		36 (etc.)
3		34
4		32
5		28
6		24
7		20
>7		0

LIST OF TOPICS TO BE COVERED

Week of:

- Jan. 3 **People:** Brief history of science, Aristotle through Darwin.
- 8 From Mendel to Genetically Modified Organisms. What is life and who controls its future?
- 15 Monday: Martin Luther King holiday
(Wednesday, January 17th, last day to drop a winter quarter class)
Jan 18 Quiz, 30 points
- 22 **Plants:** The magic and chemistry of plants: philters, potions, poisons, pharmaceuticals and psychedelics. History of plant uses and modern perspectives
Jan. 25 First Exam
- 29 Poisons: Atropine, Nicotine, Tubocurarine, Strychnine, Ricin and others
- Feb 5 Pharmaceuticals: Aspirin, Capsaicin, Digitoxin, Reserpine and others
- 12 Psychoactives: LSD, Mescaline, Psilocybin, Muscarine, Salvinorin and others
Feb 15 Second Exam
- 19 Human nutrition and plants as food: carbohydrates, proteins, lipids
- 26 Some plants that have changed the world: coffee, potatoes, grapes, and others
- March 5 Continue from above, historical and current disease epidemics

Final Exam, Wednesday, March 14, at 10:10 a.m.