

Course syllabus – Organismal Biology - Non-major's Biology 1030 A -Summer II 2011
8:00-9:25 am M, T,W, Th Room 1025, Bailey Science Center Bldg.

Text: *Biology: Concepts & Investigations*, by Mariëlle Hoefnagels

Instructor: Dr. John F. Elder

Office: 2088 Biol/Chem Bldg.

Office Hours 9:30-10:00 am M,T,W & Th or by appointment, though I also have an open door policy. Feel free to drop by my lab or office, though under these circumstances, you may have to wait until I am free of other things.

Course objectives: Students should gain a basic understanding and knowledge of an overview of modern biology, demonstrated by their performance on class examinations. This quarter's lecture will focus on the VERY basic organization and function of living systems, ranging from the molecular and cellular to genetics to organismal structure and function.

Grading policy: Students are responsible for the material from both lecture and the textbook on tests. There will be 3 tests and a cumulative Final in this class, each test will count for 25% of your grade. The final Exam will count as 25% of your grade. Test dates are tentative and the final exam will be held on the date and time of the scheduled exam. To calculate your overall numerical score, multiply the average you receive on tests by .75 multiply the exam grade by .25. Then add the adjusted totals for a final overall score. Attendance and participation is required. Final letter grades will be assigned on the basis of the class performance on tests using a 10 point scale. **Do not depend on a "curve"**. There will be no extra credit work at all. Do not assume that you can talk your way into a better grade after the quarter is over. It is too late then. The time to worry about your grade is during the quarter. Note also, students are responsible for ALL material assigned and covered in lecture during this course. Tests will cover BOTH the lecture material and reading material in detail. Students who take **the: "should I study notes or the book" approach to this class are unlikely to do well. Plan to put in plenty of study time.** A few hours before a test is never enough to master this material.

Missed exams: No make up exams will be given except in cases of extreme and unavoidable hardship. It is the student's responsibility to prove such was the case and to make arrangements with me for taking exams. A grade of zero will be assigned for missed exams in ALL other cases. In other words: **do not miss exams!**

Attendance and Behavior: I assume that students in this class are adults and are responsible for their own attendance, study habits and behavior. Note that missing class will mean missing a lot of material and it is unlikely a student can do well in this course without regular attendance. Also be aware, you must be on time to take the tests. The class room door will be closed at 8:15 pm on test days and late arrivals will be considered as missed exams. Be aware, one missed test is enough to fail the course. Please be aware that this class costs all students money and so they are entitled to hear and focus on the lecture. **In other words, this isn't high school and NO disruptive behavior will be tolerated.** (as defined in your student handbook, page 24). Anyone disrupting class will be asked to leave, perhaps permanently, may be dropped from the class or failed and this is solely at the instructor's discretion.

Students should also be aware of the following university attendance policies: (1) Students who miss 20% of lecture time will receive an automatic failing grade for the course. (2) Students who do not regularly attend lecture, as determined by taking class role, by the proof role date may be automatically dropped from the class. (3) Students who neither drop nor attend class by the midterm date will receive an automatic F for the course. Also note: students are responsible for the text and lecture material on exams regardless of whether or not they come to class routinely.

Honor Policy: Cheating nor plagiarism will not be tolerated in this class and will be prosecuted to the full extent allowed by university policy and the law. Cheating and plagiarism will be considered to be any act as defined in the university handbook. Also, if in doubt, read the Biology Department statement concerning cheating and plagiarism available from the Biology Department web page.

Access Office/ ADA Statement: Students requiring classroom accommodations or modifications because of documented disabilities should discuss this need with the professor at the beginning of the quarter. Students not registered with the Access Office must contact the Access Offices in Nevin's Hall, Room 1115. The phone number is 245-2498.

Federal Privacy Act: It is illegal to release to others personal information about an individual. Therefore, grades, averages, and other personal information about anyone will not be released to anyone but that individual, posted, or given out over the phone. Do not call for information on grades, nor ask to pick up tests etc., for another student.

Course syllabus - Non-major's Biology, continued:

Important Dates Schedule

Please note that test dates are tentative and may change depending on the rate at which material is covered. Tests may be postponed but will never be moved ahead.

June

Wednesday 8, 2011 - First Class day

Thursday 23, 2011 - Test 1

July

Friday 1, 2011 - Midterm – last drop

Monday 4, 2011 - Holiday date

Thursday 14, 2011 – Test 2

Tuesday 26, 2011– Test 3 – last class

Thursday 28, 2011- Final Exam - 8:00-10:00 am

Tentative list of topics and readings

Section I: What is Life?

Common themes of molecular/cellular biology

Biochemistry Chapter 2

What is a cell? Chapter 3

Energy metabolism I Chapter 4

Energy metabolism II Chapter 6

Photosynthesis, Chapter 5

Section I Exam

Section II: Molecular and classical genetics

DNA Chapter 7

The cell cycle and mitosis Chapters 8

Sex and meiosis! Chapter 9

Classical genetics Chapter 10

Human genetics Chapter 11

DNA transcription and regulation Chapter 12

Section II Exam

Section III: The primary producers

Higher. Plants Chapter 24

How plants get the stuff they need Chapter 25

Flowering plant reproduction and development Chapter 26

Animal physiology and embryology

Tissue and organ systems Chapter 27

The nervous system and the senses Chapter 28 & 29

Regulation — the endocrine and renal systems Chapter 30 & 35

Motion — the skeleton and muscles Chapter 31

Circulation and respiration Chapters 32 & 33

Feeding Chapter 34

Immunology Chapter 36

Animal embryology and development Chapter 37

Biotechnology

Section III Exam

Final Exam