

BIO 104-002: General Biology Syllabus
Spring Semester 2012

Instructor:

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Lab Coordinators:

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Class Meeting time: TWF 10:30 AM - 11:20 AM. Room: AM 137

Required Texts:

Brooker, R.J.; E.P. Widmaier; L.E. Graham and P.D. Stiling 2009. *Biology*, 2nd Edition. McGraw Hill

Description:

This course is designed as an introductory survey of biological sciences for Biology majors. The second semester of General Biology will focus on covering the concepts and principles of evolution, organismal biology, diversity and ecology.

Grading Policy:

Lecture and laboratory are designed to be integrated as much as possible; both are essential to this four-credit course. Lectures meet three times a week. Each student will also participate in a laboratory once a week. The grade for the course is based upon, the lecture and lab performance, weighted 70% and 30%, respectively.

The final grade is based upon your combined performance as follows:

3 midterm tests each worth 150 points	450
Cumulative final exam	200
Homework assignments	50
Lab percentage x 300 points	300
Total	1000

Exams I, II, and III will be given in the classroom during the lecture period. Each exam will include materials covered since the last exam. Dates for these exams are: February 10th, March 2nd, and April 13th.

The Final Exam will be given in your classroom as scheduled in your registration book for series G: Wednesday May 9th at 11:00AM.

NOTE: Please read this paragraph carefully as it represents firm course policy. Anyone who misses one of the in-class exams must take the make-up exam or receive a zero for the missed exam grade. The make-up will substitute for the missed earlier exam. There will be no substitute exam times or other make-up exams, **so do not skip any exam unless absolutely necessary. Under no circumstances** will missed exams be made up unless I am notified prior to the exam. There are **NO** make-up exams scheduled, without a note from a Doctor, the Dean or prior discussion with me. The make-up exam is scheduled from 10:00-10:50 AM on the first day of the reading period at the end of the semester (May 5th).

Homework Assignments:

You will be assigned weekly online questions for the chapters covered that week from our e-textbook software. You will answer the questions online and will receive a grade **for the completion** of the assignment. The assignments will be posted online (McGraw Hill Connect site for class: http://connect.mcgraw-hill.com/class/e_arevalo_spring_2011) every Monday and will be due every Friday at **midnight**. Late assignments will not be accepted.

Homework assignments will also involve some problems (i.e. calculations of Hardy-Weinberg equilibrium) assigned during lecture or extra-credit points for attending Department seminars.

Expectations:

Lectures and laboratories are composed to facilitate your learning biology. **Attendance is expected.** Each instructor in the course has her/his own policy with regards to attendance. My policy is as follows:

Attendance to lecture and lab is expected. Your performance in the course depends on learning material from your text as well as lecture and laboratory. Missed sessions will in all likelihood adversely affect your performance and probably your grade. If you do not understand something and have been missing classes, don't be surprised.

Lectures will be presented generally using *Microsoft PowerPoint*, and the slides presented in class will be available for you to view from the Angel's site for the course. You may find it useful to view the presentations BEFORE class and even to print copies of the slides that will be presented to facilitate your note taking and to study from after class. However, the *PowerPoint* notes will not replace the assigned readings from the textbook **or coming to class, i.e, there will be testable material from other sources than the slides.**

Office Hours

Office hours are available for substantive questions or concerns you may have about the course. Please do not call or e-mail with questions that can readily be answered by your syllabus. Remember that the syllabus is available on the course web page in Angel.

I will be available Monday, Wednesday and Friday from 1:30 – 3:30PM, in my office (Sowa 221) or in my lab (Hickey 174), and accessible by e-mail or phone. Please email me and make an appointment if you need to meet with me at a different time.

The attached lecture schedule is, by necessity, tentative and may be adjusted, as I deem appropriate. Reading assignments are indicated and should be completed **before** coming to class. Additional assignments may be made as the semester progresses. **Exam dates are fixed.**

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Lecture topic	Chapter
Introduction – Your expectations and mine	-
An Introduction to Evolution	23
Population Genetics	24
Origin of Species and Macroevolution	25
Taxonomy and Systematics	26
Protists	28
Fungi	31
Plants and the Conquest of Land	29
Evolution & Diversity of Gymno/Angiosperms	30
Introduction to Flowering Plant Form and Function	35
Flowering Plants: Behavior	36
Flowering Plants: Nutrition	37
Flowering Plants: Transport	38
Flowering Plants: Reproduction	39
An Introduction to Animal Diversity	32
The Invertebrates	33
The Vertebrates	34
Animal Bodies and Homeostasis	40
Neuroscience	41-43
Muscular-Skeletal Systems and Locomotion	44
Nutrition, Digestion, and Absorption	45
Control of Energy Balance, Metabolic Rate, and Body Temperature	46

Lecture topic	Chapter
Circulatory and Respiratory Systems	47 - 48
Excretory Systems and Salt and Water Balance	49
Animal Reproduction	51
Immune Systems	53
An Introduction to Ecology and Biomes	54
Behavioral Ecology	55
Population Ecology	56
Species Interactions	57
Community Ecology	58
Ecosystem Ecology	59
Biodiversity and Conservation Biology	60

Academic Honesty Policy

As students at Providence College you are expected to understand and follow standards of intellectual and academic integrity. The College and the professors in the Department of Biology assume that you will be honest and that you will submit only your own work. The General Biology faculty requires that you adhere to the level of honesty as outlined by the College and refrain from dishonorable or unethical behavior.

Penalties for failure to adhere to academic policy:

1. Exams or quizzes: For the first offense, the student will receive a zero for the assignment. If a student aids another student during the exam, both parties will receive a zero. For the second offense, the student will receive an F for the course.
2. Lab reports or papers: For the first offense, the student will be asked to rewrite the assignment after a meeting with the appropriate faculty member in the course and will receive a “late” penalty of one letter grade. For the second offense, the student will receive a zero for the assignment. For any subsequent offense, the student will receive an F for the course.

Students will be required to submit their papers electronically via Angel in the BIO104 class site. Each paper will be screened with plagiarism software so it is in your best interest to write in your own words and reference the paper correctly.

As required by the Dean of Undergraduate Students, all offenses will be reported to the Dean. In addition, all offenses will be recorded in the Department of Biology for future reference.

Providence College Policy on Academic Honesty: “Acts of academic dishonesty (plagiarism, collusion, cheating, etc.) are subject to an appropriate penalty. The grade of “F” may be assigned to students found guilty of such acts. The professor of the course in which the infraction occurred will inform the Office of the Dean of Undergraduate Studies of the offense and the action taken. Students who earn a failing grade may petition a review by the Academic Appeals Committee. In addition, the Dean of Undergraduate Studies may refer any case of academic dishonesty to the Office of the Vice President of Student Services, which will judge whether further penalties should be assessed. A second offense against academic honesty renders students liable to automatic dismissal from the college.”