

GBIO 1000 - Principles of Biology Syllabus

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Required Texts

1) Biology, Science for Life 3rd Ed. Belk and Maier. Pearson Benjamin Cummings Publishing, with WebCT access code. ISBN: 0321668820

2) The Case for A Creator, Lee Strobel, 2004. Available in a number of formats, including hardcover and softcover. The student edition will NOT work, since it is laid out differently and will not have the correct chapter sequence for your essays. The campus bookstore stocks both of these books.

Lab Access Code: For this course three labs will be completed through biology labs online. You will need to go to <http://www.biologylabsonline.com/index.html> and purchase access codes for the Leaf Lab, Pop Eco Lab and the Cardio Lab. It is cheaper for you to buy the labs individually than it is for you to buy the whole lab manual.

Course Objectives

The goal of this course is to provide you, the student, with a broad-based biological foundation in the context of a biblical worldview, in order to help you exercise wise stewardship in your daily living. Biology affects many of the issues we face as persons, families, and societies in today's world. A fundamental understanding of biology will help you make informed, wise, and ethical choices.

Learners in GBIO 1000 will have the opportunity to:

1. Describe the goals of science and the field of biology and identify and explain the philosophical assumptions that characterize both.
2. Compare and contrast the nature of science to a Christian worldview.
3. Describe methods of scientific inquiry and the scientific ways of knowing and apply them to particular biological phenomena.
4. Identify and explain various homeostatic mechanisms in living organisms.
5. Explain the interconnectedness of the components of ecosystems and consequences of human activity on those connections.
6. Explain how the molecular basis of life and principles of genetics determine inheritance.
7. Describe biotic change over time at several scales, the evidence for such changes and compare and contrast such a view of life to a Christian worldview.
8. List and describe the basic life processes of living organisms and compare/contrast the associated structures and functions in various representative forms of life.
9. Evaluate the ethical implications of current biological issues from a Christian worldview.

Assignments

This course is divided up into 12 week-long units. Each unit will contain the following:

- **Quizzes:** 25 points, due Wednesday of each week. Note: the quizzes are closed book. Please use your integrity!
- **Laboratory:** 20 points, due Wednesday of each week.
- **Case for the Creator Weekly Response Essay:** 20 points, due Saturday of each week.
- **Group Blog:** 20 points per week

Point Totals

- **Quizzes:** 25 points x 12 exams = 300 points
- **Group Blog:** 20 points per week = 240 points
- **Laboratory:** 20 points x 7 assignments = 140 points
- **Case for the Creator Response Essays:** 20 points x 11 assignments = 220 points
- **Capstone Paper:** 100 points (80 points for paper, 10 points for source list, 10 points for outline)

Note: All items are due by 11:00 PM on the due date.

Late Work

Instructors reserve the right to deduct up to 20% per day for work turned in late when there is no valid excuse. Students who must miss class due to university-scheduled trips should make arrangements with the instructor beforehand to turn in work ahead of schedule. Students who encounter illness, death in the family, or other extenuating circumstances should work with their instructor to make up the work as soon as possible.

Grading:

For grading scale, see the table below.

Grade	Points
A	940-1000
A-	910-939
B+	880-909
B	840-879
B-	810-839
C+	790-809

C	740-789
C-	710-739
D+	690-709
D	650-689
D-	635-649
F	0-634

Disabilities

If you believe you may need support in managing the impact of a disability, please contact Amy Frey, afrey@cedarville.edu, (Disability Services). Faculty rely on Disability Services to verify the need for academic accommodations and to identify reasonable and appropriate accommodation strategies. Disability Services is part of the Academic Enrichment Center-The Cove located in the BTS building.

Academic Dishonesty

As stated in the current CU student handbook, academic dishonesty includes, but is not limited to

- cheating on examinations or quizzes (using any sources other than your mind!)
- plagiarism (using others' written work without appropriate citation)

Penalties for such behavior may be determined by your instructor, and may include any of the following options:

- Reducing the letter grade for the work involved
- Reducing the letter grade for the course
- Giving a failing grade for the work involved
- Giving a failing grade for the course
- If you cheat in this class, expect to fail the course.

Secrets for Success

1. Read the syllabus
2. Read the lectures and text as assigned
3. Keep up with your assignments on a daily basis
4. When you have a question, ask your classmates or your instructors
5. Make the material your own. Remember that ultimately, YOU are responsible for your learning.