

# BIOL 1108 Principles of Biology II (4 credits)

## Syllabus

**Announcement:** *Due to changes in faculty, labs will NOT start until the week of January 27<sup>th</sup>. If you have specific questions about lab check with the professor teaching your lab.*

**Instructor:** Dr. Theresa J. Grove

**Office:** BC 1099

**Office hours:** Tuesday 2:00-4:00 p.m. or by appointment

**Email:** tjgrove@valdosta.edu (do **NOT** email me on Blazeview)

**Lecture (BC 1011):** Monday, Wednesday and Friday 9:00 - 9:50 a.m.

**Lab (BC 1073):** Section G: Monday 1:00 - 3:50 p.m.

Section H: Tuesday 9:30 - 12:20 p.m.

Section I: Tuesday 2:00 a.m. - 4:50 p.m.

Section J: Thursday 1:00 - 3:50 p.m.

**Prerequisite:** BIOL 1107 (or the equivalent) or permission of the instructor.

**Description:** An introduction to physiological processes in plants and animals. Structure, nutrition, transport, coordination, reproduction, and development will be addressed.

**Course goals and objectives:** The primary goal of this course is to introduce physiological processes of plants and animals. This is the second introductory course, and ***it is expected that the student is familiar with topics covered in BIOL1107.*** By the end of the semester students should have sufficient background to successfully complete higher level courses that will cover specific topics in much greater detail.

The Department of Biology seeks to help develop general skills, such as communication skills and information processing skills. Communication skills will be exercised through laboratory assignments and lab practicals and lecture exams. Information processing skills will be developed because of the nature of biology. A lot of information will be given to students in a relatively short period of time, and students are expected to retain this information, not only for the final exam, but for future courses.

Learning goals include:

- Increase your understanding of structure-function relationships in biology
- Increase your understanding of the physiology of the major systems in plants and animals including:
  - Structure/function relationships
  - Nutrition
  - Transport
  - Movement
  - Reproduction
  - Development
  - Sensory systems
- Strengthen your ability to critically analyze scientific data and test scientific hypotheses
- Cultivate the linkage of biology with math, physics and chemistry.

These goals support the Department of Biology Education Outcome #2, #3 and #5 and VSU General Education #5.

**Lecture Textbook:** Life: The Science Biology by Sadava *et al.* 9<sup>th</sup> or 10<sup>th</sup> ed. Sinauer Associates, Inc.

**Lab Manual:** Principles of Biology II Lab Manual (3<sup>rd</sup> edition) by T. J. Grove. The 2<sup>nd</sup> edition will work, but there are some minor changes. Your lab professor will provide you with a syllabus detailing the lab portion of this course.

**Attendance:** Attendance in lecture is expected by all students. Attendance in lab is mandatory. If you miss three labs for any reason you cannot earn higher than a D for your final grade.

**Access to Slides/Information:** Lecture slides will be made available on BlazeView by 5:00 p.m. the day before lecture. These slides will not have all the information on them; it is the student's responsibility to come to class and take notes. Students are responsible for getting the notes from other students if they miss a lecture. I will NOT email notes that are missed, nor will I let you copy my notes in my office.

**Lecture Conduct:**

- Arrive on time. Quizzes missed due to late arrival or leaving early cannot be taken at a later time.
- Do not use cell phones during lecture unless I have given you permission.
- Don't talk during lecture; if you don't understand something or didn't hear something ask. If talking becomes an issue I will assign seats.
- Unless it's an emergency (and using your cell phone does not constitute an emergency) do not get up in the middle of lecture, leave and come back.
- During exams **NOBODY** can leave the exam and re-enter the exam room. If a student leaves, their exam will be graded as is; the student will not be allowed to finish the exam.

**Withdrawing from the course:** The last day to withdraw without penalty is March 6. If you don't officially withdraw, and instead just stop coming to class, you will earn an F for the course.

**Academic conduct:** Cheating and plagiarism will not be tolerated and may result in a failing grade for the assignment, exam, or the class. Read the Department of Biology plagiarism policy, which is available at: <http://www.valdosta.edu/colleges/arts-sciences/biology/resources.php#student>

**Privacy Act (FERPA):** The Family Educational Rights and Privacy Act (FERPA) prohibits the public posting of grades by social security number or in any manner personally identifiable to the individual student. No grades can be given over the telephone or over email because positive identification cannot be made.

**Students with disabilities:** Students requiring special accommodations because of disability must discuss their needs with me as soon as possible. Those needing accommodations who are not registered with the Special Services Program must contact the Access Office for Students with Disabilities located in Farber Hall. The phone numbers are 245-2498 (voice) and 219-1348 (tty).

**Study Habits:** I will have "How Dr. Grove would study for biology courses" sessions during the second week of class. These are not review sessions nor will I tell you what will be on the exams, but I will provide you with the techniques I used to study during college. So, if you are unhappy with your grades

you have earned so far during your college career this may be of some use to you. Times will be announced on Blazeview.

**Quizzes:** During lecture approximately 15 quizzes each worth 5 points. Your highest 10 quiz scores will be combined for a 50 point grade that will be included in your final grade. Make-up quizzes for any reason are not available. The format of the quiz may vary and quiz dates will NOT be announced.

**Exams and Final:** A total of 6 “regular” exams and 1 final exam will be given during the semester. The first 3 exams will be over animals, the next 3 exams will cover plants, and the final is cumulative. Each exam will be worth 100 points. Please note the dates for the “regular” exams in the Tentative Class Schedule. Note, that these are TENTATIVE; therefore I reserve the right to adjust the dates (or content) of the exams. The 3<sup>rd</sup> plant exam will be given during the time of the final. The decision to do this was based on MANY comments from students during previous semesters who thought that they did not perform well on exams when the last in-class exam was given on the last day of lecture and the final a couple of days later. The “regular” exams will consist mainly of multiple choice questions, but will have other question formats (e.g. fill in the blank, short answer, etc). The final will be all multiple choice. The lowest exam grade (out of all 6 exam grades) will be dropped. No make-up exams will be given. A missed exam (for any reason) will be the exam dropped. **If you skip the day of the final that will be 2 missed exams; so do not skip it!** Only students with a University related excuse may take an exam early. Exam grades will be returned in class ~7 days after exam date, but students will not be allowed to keep exams. The final is scheduled for Thursday, May 8 (8:00-10:00). No early exams will be given for starting summer break early.

**During the exam all cell phones must be turned off.** All bookbags, books, purses etc. must be placed in the front of the classroom; NO EXCEPTIONS. If you do not feel comfortable putting your purse, bag, books, etc. on the stage don't bring them with you to class. Hats and hoods cannot be worn during exams. All hands must remain above the desk at all times during exams. **If you have a cold and need tissues bring them with you; you will not be allowed to go to the bathroom during exams.**

#### **Grade Scale:**

For Biology majors, a grade of C or higher is required for this course.

- A 90-100%
- B 80-89%
- C 70-79%
- D 60-69%
- F < 60

**To Calculate your Final Grade:** Final grades will be based on both the lecture and laboratory components of the course. Lecture is worth 75% of your final grade, and lab is worth 25% of the final grade.

- **Lecture component (total 550 points):** Add points earned from 5 exams and 10 quizzes. Divide by 550 (total points possible). Multiple this number by 0.75. For example if you earn 474 points for your exams and quizzes,  $474/550=0.8618$ , and then  $0.8618*0.75=0.6464$
- **Lab component:** Take your decimal grade earned in lab and multiply it by 0.25. For example an 85% is 0.85. So, you would multiply  $0.85 * 0.25 = 0.2125$ .
- **Final Grade:** Add the numbers you just calculated for the lecture and lab and multiply this number by 100. For example:  $(0.6464 + 0.2125)*100 = 85.9\%$

## **Spring 2014 TENTATIVE LECTURE SCHEDULE**

### January

- 13 Introduction to Physiology and Phylogenies
- 15 Chapter 31 (excerpts): Introduction to Animals and Chapter 40: Homeostasis and the Role of Physiological Systems
- 17 **NO CLASS: BUT Extra Credit Assignment will be posted on Blazeview that will be due on Wed, 1-22**
- 20 Martin Luther King, Jr. Day—NO CLASS
- 22 Chapter 40 (cont'd) and Chapter 41: Animal Hormones
- 24 Chapter 41 (cont'd)
- 27 Chapter 43: Animal Reproduction
- 29 Chapter 43 (cont'd)
- 31 Chapter 45: Neurons and the Nervous System (will be on Exam 2)

### February

- 3 **Exam 1 (thru Animal Reproduction)**
- 5 Chapter 45 (cont'd) and Chapter 47: Mammalian Nervous System
- 7 Chapter 46: Sensory Systems
- 10 Chapter 46 (cont'd)
- 12 Chapter 48: Muscles
- 14 Chapter 48 (cont'd)
- 17 **Exam 2 (thru Muscles)**
- 19 Chapter 49: Gas Exchange
- 21 Chapter 49 (cont'd) and Chapter 50: Circulatory System
- 24 Chapter 50 (cont'd): Circulatory System
- 26 Chapter 51: Nutrition and Digestion
- 28 Chapter 51: Nutrition and Digestion (cont'd)

### March

- 3 Chapter 52: Salt and Water Balance
- 5 Chapter 52: Salt and Water Balance (cont'd)
- 7 Catch-up and Review
- 10 **Exam 3 (thru Salt and Water Balance)**
- 12 Chapter 28: Seedless Plants
- 14 Chapter 28 (cont'd)
- 17-21 SPRING BREAK—NO CLASS
- 24 Chapter 28 (cont'd) and Chapter 29: Evolution of Seed Plants
- 26 Chapter 29 (cont'd)
- 28 Catch-up and Review
- 31 **Exam 4 (thru Seed Plants)**

### April

- 2 Chapter 34: The Plant Body
- 4 Chapter 34 (cont'd)
- 7 Chapter 34 (cont'd) and Chapter 35: Transport in plants
- 9 Chapter 35 (cont'd)
- 11 Chapter 35 (cont'd) and Chapter 36: Plant Nutrition
- 14 Chapter 36 (cont'd)
- 16 Chapter 36 (cont'd)
- 18 Chapter 37: Regulation of Plant Growth
- 21 **Exam 5 (thru Plant Nutrition)**
- 23 Chapter 37 (cont'd)
- 25 Chapter 38: Reproduction in Flowering Plants
- 28 Chapter 38 (cont'd)
- 30 Chapter 39: Plant Responses to Environmental Challenges

### May

- 1 Chapter 39 (cont'd)
- 5 Catchup and Review
- 8 **8:00-10:00a.m. Exam 6 (thru Plant Responses) and Cumulative Final**