

INSTRUCTOR: Dr. J. A. NIENOW

OFFICE: 2089 Biology/Chemistry Building; 249-4844

Office hours: TTh 9:30 to 10:30 or by appointment

EMAIL: jnienow@valdosta.edu

TEXTS:

REQUIRED: Grove, T. 2015. Biology Pre Lab Manual (Access card only). GreatRiverLearning.com.

RECOMMENDED: Sadava, A., H. C. Heller, G. H. Orians, W. K. Purves, D. M. Hillis. 2011. Life: The Science of Biology. 9th edition. W.H. Freeman & Co. Gordonsville, VA.

OTHER RESOURCES:

<http://www.valdosta.edu/~jnienow>

<http://www.grtep.com>

[BlazeView](#)

www.aamc.org/students/mcat/preparing/bsttopics.pdf--contains information concerning biology topics covered by the MCAT

PREREQUISITES: A grade of C or better in Biology 1107.

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

GENERAL COURSE GOALS: The primary goal of this course is to introduce you to the underlying principles of biology. Because this is an introductory course, no one topic will be studied in great detail. However, you should have sufficient background at the end of the semester to pursue interesting topics in higher level courses. You should also gain the background necessary to understand the biology behind many of the problems and issues facing this country. It is also hoped that you will gain an understanding of how biologists and other scientists approach problems.

The biology program also seeks to develop some of your general college skills, in particular, your communication skills, your information processing skills, and your ability to think. Your communication skills will be exercised primarily through library assignments and written and/or oral reports of lab activities. Your information processing skills will be developed because of the nature of biology. You will be supplied with a large quantity of information in a very short time, which you must learn in some detail or you will not do well in this course. This will not be wasted effort, however. The ability to digest and incorporate large amounts of information quickly is a valuable skill in most fields of endeavor. Your ability to think will be involved in the analysis of lab exercises, class assignments, and test questions.

SPECIFIC COURSE GOALS: By the end of this course, students will be able to:

answer questions that demonstrate an understanding of fundamental concepts of biology, including the scientific method and experimental design; the role of evolution in shaping the modern world; and commonalities in the ways multicellular organism deal with basic biological problems (GEO 5; BEO 1-4)

perform a variety of standard lab techniques used in biological research (GEO 5)

use critical thinking skills and written communication skills to analyze and evaluate the content quality of written and visual media relating biological knowledge (GEO 4 & 7)

present the results and conclusions of data collected in the lab in standard scientific writing format (GEO 4 & 7; BEO 1)

ATTENDANCE: Students are responsible for attending class and for the material presented in all classes. There will be no make-ups of missed labs, quizzes, and other assignments. Students who have missed 20% of regularly scheduled class meetings, especially labs, are subject to a failing grade for the course; student's missing 4 or more labs cannot and will not receive a grade higher than a D.

LECTURE EXAMS: (GEO 5; BEO 1-5): There will be five unit exams. The first four are each worth 100 points. These will consist of a combination of short answer and multiple choice questions. The dates of these exams are included in the attached schedule of lectures. DO NOT MISS THESE EXAMS WITHOUT PRIOR PERMISSION. The final

DROPPING A COURSE WITHOUT PENALTY: In order to officially drop a course without penalty, a student must obtain and fill out a drop/add form from the Registrar's Office, acquire appropriate signatures, and return the completed form to the Registrar's Office before the designated date (published in the academic calendar). If you don't officially withdraw, and instead just stop coming to class, you will

4. Students will express themselves clearly, logically and precisely in writing and in speaking, and they will demonstrate competenc

Note: Pacing and testing dates may be changed if the need arises. Attend class regularly.



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| - | LAB Angiosperm physiology | exercises 6 |
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| 10-5-2015 | LECTURE Origins of animal body plans | Chapters 31/32/33 |
