

**BIOL 1030 Introduction to Biology: Organismal Biology. Spring 2011**

Department of Biology, College of Arts & Sciences, Valdosta State University

From the VSU Undergraduate Course Catalog: “

”

Section A      Mon/Wed/Fri 12:00 – 12:50 PM

**Attendance:** Class attendance is mandatory. Roll may be taken at any point, but will also be ascertained through completion of the unscheduled, short, in-class assignments. If you must miss a class, you are responsible for the missing material. It is quite unlikely that you will be able to perform well on the exams, if you miss too many classes. Also, show up to class on time; I will not wait for you. And, if you ever are forced to be late, enter through the rear

**Breakdown:**

Examinations	4 Topical Exams (10% Each on Sections I-IV)	40%
--------------	---	-----

**Course Schedule** (subject to change at the instructor s discretion):

<u>Date</u>	<u>Topic</u>	<u>Reading Assignment</u>
M Jan 10	<b>Section I:</b> What is Life? Common themes of molecular/cellular/physio biology Syllabus overview and course introduction	
W Jan 12	Biochemistry — atoms and molecules	Chapter 2
F Jan 14	What is a cell? Ultrastructure and membranes, part I	Chapter 3
M Jan 17	<u>MLK Birthday Holiday: no classes!</u>	
W Jan 19	Cell ultrastructure, part II	
F Jan 21	Energy metabolism I	Chapter 4
M Jan 24	Energy metabolism II	
W Jan 26	Energy metabolism III	Chapter 6
F Jan 28		

W Mar 23	<b>Section IV: Animal physiology and embryology</b>	
	Tissue and organ systems in animals	Chapter 27
F Mar 25	The nervous system	Chapter 28
M Mar 28	The senses	Chapter 29
W Mar 30	Regulation — controlling it all — the endocrine system	Chapter 30
F Apr 1	Regulation — controlling salts and toxins — the renal system	Chapter 35
M Apr 4	Motion — the skeleton and muscles	Chapter 31
W Apr 6	Oxygen and glucose in, CO <sub>2</sub> and other wastes out — circulation	Chapter 32
F Apr 8	Just oxygen in and CO <sub>2</sub> out — respiration	Chapter 33
M Apr 11	Keeping the machinery going — eating other life	Chapter 34
W Apr 13	Keeping the machinery going — nutrition and eating habits	
F Apr 15	Keeping the bad guys at bay — immunology I	Chapter 36
M Apr 18	Keeping the bad guys at bay — immunology II	
W Apr 20	Human sexual physiology	Chapter 37
F Apr 22	Animal embryology and development	
M Apr 25	<b><u>Section IV Exam</u></b>	
W Apr 27	Biotechnology — the background	
F Apr 29	Biotechnology — Frankenfoods cloning, biomedical miracles, and other fables	
M May 2	Review and Exam preparation	

around periodically throughout the semester. If you miss them, you lose out on a very easy 20% of your total grade. I also encourage you to take advantage of all extra credit opportunity. This can be up to another 20%, between the homework and seminar write-ups and the fourth exam optional essay question. Get to know your fellow students — working together in group exam study sessions can be a big help. Furthermore, many copies of my old exams from previous semesters are out there — I purposely give them back for students to study from for the final — you're welcome to study off them as well, but I will not provide them to you. I do not consider this cheating. However, the