



## Biology II Biology 140 – Spring 2009

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Course material is available on Moodle at <https://moodle.rhodes.edu/clogin.php>

DAY	DATE	TOPIC	REQUIRED READING <sup>2</sup>
Wednesday	<b>January 14</b>	Introduction – Evolution	Chap. 22
Friday	16	Evolution - continued	Chap. 23
Monday	19	Martin Luther King Day – no class	
Wednesday	21	Evolution Drop period ends <sup>3</sup>	Chap. 24
Friday	23	Tree of Life – and Endosymbiotic Theory of Eukaryotic Evolution - Prokaryotes	Chap. 26.6, 27, 28.1
Monday	26	Tree of Life – Protists	Chap. 28
Wednesday	28	Tree of Life – Plants and Fungi	Chap. 29 & 31
Friday	30	Tree of Life – Animals	Chap. 32
Monday	<b>February 2</b>	Tree of Life - Animals	Chap. 33
Wednesday	4	Tree of Life – Animals	Chap. 34
Friday	6	<b>Exam 1</b>	
Monday	9	Plant Biology	Chap. 30 & 35
Wednesday	11	Plant Biology	Chap. 36
Friday	13	Plant Biology	Chap. 38
Monday	16	Plant Biology	Chap. 3 of Buchmann & Nabhan <sup>4</sup>
Wednesday	18	Animal Organization, Homeostasis, Tissue Types,	Chap. 40
Friday	20	Nutrition	Chap. 41
Monday	23	Nutrition - continued	
Wednesday	25	Circulation	Chap. 42.1-42.4
Friday	27	Circulation - continued	
Monday	<b>March 2</b>	<b>Exam 2</b>	
Wednesday	4	Gas Exchange	Chap. 42.5-42.7
Friday	6	Immune System	Chap. 43
Monday	9	Osmoregulation	Chap. 44
Wednesday	11	Osmoregulation	
Friday	13	Muscle	Chap. 50.5-50.6
MWF	16/18/20	Spring Break	
Monday	23	Muscle - Nerve Function	Chap. 48
Wednesday	25	Nerve Function	
Friday	27	Sensory Systems	Chap. 50.1-50.4
Monday	30	Sensory Systems - continued	

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<sup>2</sup> Campbell, N.A. and J.B Reece. 2008. *Biology*. 8<sup>th</sup> Edition. Benjamin Cummings.

<sup>3</sup> If you drop the lecture you must also drop the lab (Bio 141) and visa versa.

<sup>4</sup> Buchmann, S.L. and G.P. Habhan. 1996. *The Forgotten Pollinators*. (on reserve in the library)

Wednesday	<b>April 1</b>	<b>Exam 3</b>	
Friday	3	Hormones	Chap. 45
Monday	6	Hormones	
Wednesday	8	Reproduction	Chap. 46
Friday	10	Break	
Monday	13	Behavior	Chap. 51
Wednesday	15	Ecology	Chap. 50
Friday	17	Ecology	Chap. 52
Monday	20	Ecology	Chap. 53
Wednesday	22	Ecology	Chap. 54 ; Strange (2007) <sup>5</sup>
Friday	24	Ecology	Chap. 55
Monday	27	<b>Exam 4</b>	
Wednesday	29	Review for final	
Friday	<b>May 1</b>	URCAS – no class	
Friday	8 – 1300	<b>Final Exam</b>	

Total available points for this class will be 500 distributed as follows:

3 Best of 4 Exams, (100 pts. each)	300
1 Final Exam, Cumulative	100
Daily Quizzes, (ca. 30) – 15% of grade	75
Seminars (see below) –5% of grade	<u>25</u>
Total	500

Since you will drop an exam, I will firmly hold to a grading scheme as described below:

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<sup>5</sup> Strange, C.J. 2007. Facing the brink without crossing it. BioScience 75:920-926. (In Moodle)

100-92% 500-460 points "A"  
92-90% 460-454 points "A-"  
90-88% 454-440 points "B+"  
88-82% 440-410 points "B"  
82-80% 410-400 points "B-"  
80-78% 400-390 points "C+"  
78-72% 390-360 points "C"  
72-70% 360-350 points "C-"  
70-68% 350-340 points "D+"  
68-62% 340-305 points "D"  
62-60% 305-300 points "D-"  
< 60% < 300 points "F"

For example, if you earn more than 460 points, you will receive an "A", guaranteed. I do not have a "curve" which only allows a certain percentage (e.g., 10%) to receive "A's" or forces 10% to receive "F's". However, I gear the degree of difficulty of this course so that usually about 10% of the students receive "A's" and "A-'s".

**Daily Quizzes** – Quizzes will be available on Moodle at least 24 hours before class.

They will be “turned off” at 8:30 am (30 minutes before class). If you fail to take a quiz you will receive a zero for that quiz. See disclaimer below.

**Seminars** – There will be three-four seminars in the Biology Department this semester.

To receive 25 points towards your grade, you must attend **two** of these seminars, and submit via Moodle within 48 hours a critique of each seminar you attend.

These will be graded with a maximum of 12.5 points each. Note, this is not extra credit, but an expectation of the course. Submission of only one critique results on zero points. If you cannot attend any of the departmental seminars, you may attend, with prior permission, one of several seminars given at the University of Memphis or the University of Tennessee.

**Disclaimer** - Electronic sources of information (notes, study guides and PowerPoint presentations), are provided as supplements to your textbook readings and note taking. Technical difficulty in accessing such supplements will not be accepted as an excuse for missing or delaying an exam. You should always anticipate such difficulties and obtain electronic copies or hard copies well in advance of each exam.

The daily quizzes are available at least 24 hours before class meeting, and last-minute technical difficulties do not qualify as an excuse for missing a daily quiz.

## **EXPECTATIONS**

I expect that you are taking this course because you are genuinely interested in the study of life, i.e., biology. If you are taking this course simply to fulfill a science requirement and have no interest in biology, you have made the wrong choice.

While an introductory course, this is a rigorous course in the second of the introductory series. Please note that the way in which things are done in this course will be different

from Biology 130. I expect that you will have looked over the assigned reading before we cover this material in class. I also expect that you will go back and read carefully the assigned chapters and review your class notes within a day or two of their being given. If you wait until the night before quizzes and exams to study, you will have an unpleasant experience and will not perform as well as you would like.

I expect that you will be responsible for your own mastery of the material. If you have questions about concepts presented in the text or lectures, it is your responsibility to find the answers to these questions. That means doing things like re-reading carefully the text, working with the material, and asking me. Be advised though, I will not work with you on material covered in classes you missed.

It should go without saying, I expect you to contribute to this class. Examples of such contributions include asking questions when appropriate, answering questions when asked, maintaining a positive attitude, and coming to class on time. It should go without saying that disruptive behavior such as talking on cell phones, interrupting, sleeping, eating, or other discourteous behavior will not be tolerated.

The syllabus above will be followed as closely as possible. That means exams will be given on the dates listed. If you fail to appear for an exam or fail to take a daily quiz you will receive a zero for that exam or quiz. You may be excused from an exam or quiz only if you contact me well in advance.

### **PHILOSOPHY AND OBJECTIVES**

One of my major objectives for this course is to provide the best introduction to organismal biology you could possibly obtain in one semester. This will involve, in part, my providing the information and resources to you. I will also provide, hopefully, the stimulation and impetus for you to dig into this material. Without this second component - your active involvement - we will just be going through the motions.

To achieve this major objective I feel it is essential that you gain factual knowledge such as terminology, classifications, and methods. It is also essential that you learn fundamental principles. With these you will be able to apply the course material to solve problems and improve your thinking skills. These specific skills and competencies are important should you choose a profession related to the biological sciences.

Another objective of mine is to sensitize you to the life process as it occurs in organisms. With this awareness, you may view other organisms and yourself differently. Hopefully you will develop a respect of the life process, which will influence your decisions in the future.

When you have finished this course, you will be able to take upper-level biology courses at Rhodes. Therefore, the foundation you receive in this course is quite important. If you are not going on in Biology, it is especially important for you to master this material because you will not be exposed to it again in a formal manner. You will, however, be exposed to this material throughout your life.

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I have read the syllabus, grading schedule, expectations, disclaimer and philosophy and objectives for Biology 140, Biology II. I fully understand what I have read and have no questions.

Print Name \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_  
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