

BIOL 2108: PRINCIPLES OF BIOLOGY II (FALL 2014) COURSE SYLLABUS

Instructor: Dr. Marcia Hesser
Biology Lecturer

Phone: 678-915-6804 (Office)
Email: mhesser@spsu.edu

Office: E-103 Crawford Laboratory Building
Office Hours: MWF 9:00-10:00 am
Th 10:00 am-Noon or by appointment

Feel free to stop by my office at any time. If I am not busy, I will be happy to speak with you!

Course Web Page (D2L): <https://spsu2.view.usg.edu/>
Student D2L Login Instructions: <http://spsu.edu/d2l/student/>

Course Description & Learning Outcomes:

This course will continue building upon those ideas students learned in Biological Principles I. The lecture session will examine topics such as biodiversity, plant & animal structure and function, as well as introducing the fundamentals of ecology.

Student learning outcomes will be:

- (1) to understand and describe the systematics and diversity of living organisms.
- (2) to understand and describe the fundamental anatomy and physiology of plants.
- (3) to understand and describe the fundamental anatomy and physiology of animals.
- (4) to understand and describe the principles of ecology and population biology.

Co-requisite course: BIOL 2108L

Required Textbook: *Biology: the dynamic science (3rd ed.)* by Russell, Hertz, & McMillan (ISBN: 978-1-133-58755-2)

Credit Hours: 3

Meeting Times: 11:00-11:50 am MWF (Section 02)

Evaluation:

Evaluation for the class will be based on the following criteria:

- Five lecture exams 80 %
 - Online quizzes/homework 20 %
- = 100 %**

Grading Scale: *out of 100 %*

- A = 90 – 100%
- B = 80 – 89.4%
- C = 70 – 79.4%
- D = 60 – 69.4%
- F = below 60%

LECTURE:

Exams:

- Exams (including the final) are not comprehensive; although, each will assume that previous material has been learned. There will be 5 exams, each worth 100 points. The format of each exam will be a combination of multiple choice, matching, true/false, and short answer.

Homework

- There will be an online homework assignment associated with most textbook chapters. These assignments will be completed through the Quiz tool found on D2L. Online homework is open-book/open-notes and should be used as a tool to focus your studying. The due date for each homework assignment will be provided during class as well as in the Calendar tool on D2L. Your lowest homework grade will be dropped.

Attendance:

- In order to receive maximum benefit from the course, students must attend lecture. Attendance **WILL** be taken, but your lecture grade will not be directly affected by absences.
- I reserve the right to mark chronically tardy students as absent for the purposes of attendance.
- **You are also responsible for all announcements made in class about exams and changes in the syllabus.**

Late Work & Makeup Work:

- Late online assignments can be turned in no later than 24 hours after the original deadline. The maximum score possible at that time will be 75.
- Make-up lecture examinations WILL NOT be given, except for SERIOUS medical conditions and games for SPSU sports teams. **A physician MUST provide written documentation of the illness, and must include a contact telephone number.** Documentation is also required for sports-related absences, and is required **1 week in advance**. Failure to provide adequate confirmation will result in a zero for the exam. The makeup exam will be in the format of my choosing (oral exams & essay exams are likely formats).

Honesty:

- SPSU has an Honor Code and a procedure for handling cases when academic misconduct is alleged. All students should be aware of them. Information about

the Honor Code and the misconduct procedure may be found at <http://www.spsu.edu/honorcode/>.

- All work must be your own! If you are caught cheating on any graded assignment you will receive an F for the **entire course**. An F grade issued for academic dishonesty cannot be converted to a W.

Learning Disabilities:

- If you have a documented disability as described by the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) that may require you to need assistance attaining accessibility to instructional content to meet course requirements, we recommend that you contact the ATTIC at (678) 915-7361 as soon as possible. It is then your responsibility to contact and meet with your instructor. The ATTIC can assist you and the instructor in formulating a reasonable accommodation plan and provide support in developing appropriate accommodations for your disability. Course requirements will not be waived but accommodations will be made, when appropriate, to assist you to meet the requirements.
- I MUST receive a copy of the completed 'Faculty Accommodation Form' from the ATTIC before I provide any class accommodations.

TIPS FOR SUCCESS FROM SOMEONE WHO'S BEEN THERE

General Advice

- **Keep up with the material!** One way to insure poor performance in this class is to put off studying the material until the day before the test. We will simply be covering too much material in too much detail for you to get away with cramming the day before an exam. It is essential that you study the material within a reasonable period of time after lecture. *Trust me...*you'll be glad you did!
- **Ask questions!** Regardless of whether you are in lecture /or lab, it is essential that you ask questions if you don't understand a concept. The longer you are confused about a given topic, the harder it may be for you to eventually understand it. In addition, your confusion could impede your understanding of related topics. *Please...*don't be afraid to raise your hand in class or to talk to me one-on-one; I promise I won't bite!
- **Read the book!** Make sure you read the appropriate chapter(s) either before or soon after my lecture on a given topic. The descriptions, tables, figures, and diagrams of concepts in the book will be most helpful in helping you learn the material.
- **Use the review sheets!** It is my custom to hand out fairly detailed review sheets before an exam. I have found that if students treat the review sheet like a mock-exam (i.e., they quiz themselves using the review sheet), they perform *much* better on exams.

TENTATIVE LECTURE SCHEDULE*

WEEK #	WEEK OF	TOPIC	CHAPTER
1	8/13	Systematics and Phylogenetics	24
		The Origin of Life	25
2	8/18	Prokaryotes	26
		Protists	27
3	8/25	Protists continued	27
		Fungi	30
		Seedless Plants	28
4	9/1	LABOR DAY—no class! Seed Plants EXAM 1 (Chap 24-27, 30; Exam date 9/5)	29
5	9/8	Seed Plants continued	29
		The Plant Body	33
		Transport in Plants	34
6	9/15	Reproduction and Development in Plants	36
		Animal Phylogeny, Acoelomates, and Protostomes	31
7	9/22	EXAM 2 (Chap 28-29, 33-34, 36; Exam date 9/24) Deuterostomes	32
8	9/29	Deuterostomes continued	32
		Introduction to Animal Organization and Physiology	38
9	10/6	The Circulatory System	44
		Defenses against Disease	45
10	10/13	Gas Exchange: The Respiratory System	46
		The Nervous System	39
11	10/20	EXAM 3 (Chap 31-32, 38, 44-46; Exam date 10/20) The Nervous System	40
12	10/27	The Endocrine System	42
		Muscles, Bones, and Body Movements	43
13	11/3	Animal Nutrition	47
		Regulating the Internal Environment	48
14	11/10	EXAM 4 (Chap 39-40, 42-43, 47-48; Exam date 11/12) Ecology and the Biosphere	51
15	11/17	Ecology and the Biosphere continued	51
		Population Ecology	52
16	11/24	Population Interactions and Community Ecology	53
		Ecosystems	54
17	12/1	Biodiversity and Conservation Biology	55
	TBA	FINAL EXAM (Chap 51-55)	

*lecture and exam schedules are subject to change

IMPORTANT DATES TO REMEMBER:

August 18: Last Day to Add/Drop
September 1: Labor Day Holiday (No Classes)
September 3: Engagement Reports Due
September 29: Midterm Grades Due
October 2: Last Day to Withdraw with a "W"
November 26-28: Thanksgiving Holiday
December 1: Last Day of Classes