Fall 2012 Biology 125 Citrus College

Dr. Dana Hester
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Office Hours: M: 8:45-9:15am T: 5-6:00pm W: 11:30am-12:30pm F: 10:30-11:30am or by appointment

WEEK	CHAPTERS	TOPICS
27 Aug	26/27	Introduction, Early Earth, and the Origin of Life/Intro to Prokaryotes
Labor Day Holiday September 3rd (Monday – No Classes)		
03 Sept	27/28	Prokaryotes and the Origin of Metabolic Diversity/Intro to Eukaryotes
10 Sept	28/29	Origins of Eukaryotic Diversity (Protists)/Intro to Plants
17 Sept	29/30	Plant Diversity Part I (Land colonization) and II (Evolution of seed plants)
24 Sept	30/31	Plant Diversity Part II Con't, Fungi
01 Oct	32/33	Introduction to Animal Evolution and Invertebrates
EXAM 1 (Chapters 26- 31) Wednesday October 3rd		
08 Oct	33/34	Invertebrates Con't and Vertebrate Evolution and Diversity
15 Oct	34	Vertebrate Evolution and Diversity Con't
22 Oct	35, 36	Plant Structure, Growth, and Development & Transport
29 Oct	37, 38	Plant Nutrition and Angiosperm Reproduction
05 Nov	38, 39	Plant Responses to Internal/External Signals
EXAM 2 (Chapters 32- 35) Wednesday November 7th		
Veterans Day Holiday November 12th (Monday – No Classes)		
12 Nov	40, 46	Animal Structure, Function, and Reproduction
***Thanksgiving Break Nov 24th – 26th**		
19 Nov	46, 47	Animal Reproduction and Development
26 Nov	50/52	Introduction to Ecology and the Biosphere/Population Ecology
EXAM 3 (Chapters 36-39) Wednesday November 28th		
03 Dec	53/54	Community Ecology/Ecosystems
FINAL EXAM Cumulative Including New Chapters 40, 46, 47, 50, 52-54. Wednesday - Dec. 12th – 8:00-10:00 am		

*** Students are responsible for any changes in the syllabus.**

REQUIRED TEXTBOOK: Campbell Biology, Reece et al., 9th Edition. ISBN: 9780321558237

COURSE DESCRIPTION: This course is designed for biology majors and pre-medical students. This course is a detailed study of basic structure and function of living material, with emphasis

on animal and plant diversity and functional relationships, ecology, and evolutionary change. The laboratory section of the course provides the student with first hand experience in specific areas of course content.

GRADING STANDARDS:

One third of the course grade will come from roughly six unannounced quizzes and from the 3 lecture exams given (**all** exams count*). The exams will be approximately 35-40% subjective and 60-65% objective. You will also have a writing assignment (worth 30 points) as part of the discussion hour. Approximately 390 points total (3 exams, 6 quizzes, and 1 paper).
No makeup exams will be given. No makeup quizzes will be given.

One third of the course grade will come from the laboratory. This will include discussion material, lab exams, group video presentation, and lab quizzes.

One third of the course grade will come from the comprehensive final exam. This exam will include a comprehensive portion of approximately 45 questions and approximately 45 questions from material covered after lecture exam #3. ***If you have less than 4 hours of absence between lecture and lab, then you may use your half of your final exam score to replace a lower regular lecture exam score.**

Anyone cheating on exams, quizzes, or any other work (including plagiarism) for this course will be removed from this course and subject to severe institutional disciplinary action.

ATTENDANCE: This class will meet on MW from 9:15-11:20 for lecture & discussion and on Mondays from 11:30am-2:40pm or 3:00-6:10pm for lab. Attendance will be taken at the **beginning** of class each day. Should you arrive after attendance has been taken, you will be marked late for that day (two late arrivals = 1 full absence). You may be dropped after any combination of **6 hours of class time missed.** If an absence causes you to miss your 6th hour *after the withdrawal deadline*, you may be removed and given an "F" in the course.

ASSISTANCE: I keep in contact with several students who received a B or better in previous semesters who might be willing to tutor. Please see me if you are interested in contacting one of these students. I am available during office hours and by appointment should you wish to have help directly from me.

ACCOMODATION: All reasonable efforts will be made to accommodate students with disabilities. It is your responsibility to provide documentation of your disability and resolve the appropriate accommodation(s) during the **first week of the semester**. I require written notice from your DSPS counselor **one week** prior to any form of assessment in which accommodation is requested.

DICTIONARIES/TRANSLATION DEVICES: You **may not** use any dictionary or translation device during lecture or laboratory exams.

USE OF RECORDERS: There will be specific conditions under which students will be allowed to use a recorder in the course. Please see me to discuss these conditions. **The right to use a recorder may be revoked at any time during the semester.**

CONSIDERATION OF OTHERS: Please turn electronics off or set them on vibrate mode during class. Cell phones must be turned off in class. Excessive talking or noise from cell phones or other electronics during lecture may result in your removal from class. Please do not bring beverages or food into class.

Welcome Home Returning Veterans! We are honored to have you on campus and look forward to your continued success here. For some returning veterans, going back to school can present unique challenges. If that is true for you, remember that you don't have to face these challenges on your own. We are here to help. Please feel free to discuss any questions or concerns you may have about the curriculum, the assignments, your personal struggles, family struggles or your academic program with me in person. Thank you for your service, and welcome home!

Students are required to adhere to the Citrus College Student Code of Conduct.

Biology 125 Laboratory Fall 2012

Required Lab Manual: Investigating Biology Lab Manual, 7/E By Reece, Urry, Cain, Wasserman, Minorsky, Jackson, Morgan, & Carter ISBN-10: 0321668219 ISBN-13: 9780321668219

Date	**Topic**
27 August	Introduction - remember no lab on Sept. 3rd – Labor Day
10 September	Bacteriology; Protists and Fungi - Topics 13 and 14 **(10 pts. for in-class assignment)**
17 September	Plant Diversity I - Topic 15 ***Quiz 1 on topics 13 & 14**
24 September	Complete Plant Diversity II - Topic 16 **(20 points)**
01 October	Invertebrate Diversity - Topics 18 and 19 **(10 points)** ***Quiz 2 on topics 15 & 16**
08 October	Vertebrate Diversity – Topic 19 **(10 points)** ***Quiz 3 on topic 18**
15 October	Plant Structure and Transport - Topic 20 **(10 points)** ***Quiz 4 on topic 19**
22 October	**Practical Exam (60 points) (Topics 13-20)**
29 October	Plant Reproduction, Development, and Control - Topic 21 **(10 points)**
05 November	Animal Structure and Function - Topics 22-23 **(20 points)** ***Quiz 5 on topic 21**– remember no lab on November 12th
19 November	Animal structure and function continued - Topics 23-24 **(10 points)** ***Quiz 6 on topic 22**
26 November	Animal Development - Topic 25 **(10 points) *Quiz 7 on topic 23 and 24**
03 December	**Laboratory Practical Exam (60 pts.) (Topics 21-25)**

***Quizzes will have approximately 10 points covering material from the previous lab topic(s) and approximately 5 points covering material from that current day's topic(s).**

Laboratory Points:	Two major laboratory exams...	120 points
	Quizzes (approx. 6 at 15 pts. each)	90 points
	Video and Discussion (30 pts.)	30 points
	Lab Exercises	110 points
	Total Points	350 points

STUDENT LEARNING OUTCOMES

Upon completion of this course, students will be able to do the following:

Communication (personal expression and information acquisition)
Information competency

OUTCOME: Articulate an understanding of biological processes using scientific terminology
ASSESSMENT: through classroom/laboratory discussion, written essays and research papers, oral presentations and exams/practical exams.

Computation

OUTCOME: Interpretation of charts, tables, and cladograms
ASSESSMENT: assessed through group discussions, laboratory projects and examinations

Creative, Critical, and Analytical Thinking

OUTCOME: Formulate scientific hypotheses
ASSESSMENT: through group discussions, lab reports, and examinations

OUTCOME: Utilize dissection and observation techniques and report results
ASSESSMENT: through laboratory projects and reports

OUTCOME: Use an understanding of organismal structure and function
ASSESSMENT: through laboratory projects and discussion and examinations

OUTCOME: Describe and use various scientific equipment and methods of biology
ASSESSMENT: through laboratory projects and discussion

OUTCOME: Examine prokaryotic, protistan, fungi, plant and animal form
ASSESSMENT: through laboratory projects and discussion and examinations

OUTCOME: Describe ecological relationships
ASSESSMENT: through group discussions, research papers, and examinations

Community/Global Consciousness and Responsibility

OUTCOME: Examine how new technology affects the genetics, reproduction, and evolution of organisms
ASSESSMENT: through group discussions and examinations.