

COURSE TITLE:**BIOL 122 - BIOLOGICAL CONCEPTS: Evolution, Diversity & Ecology****FALL 2011:****SH 1108: MWF @ 11:30 a.m. - 12:25 a.m.****INSTRUCTOR:****Dr. Scott Grubbs - EBS 3124****[e-mail: scott.grubbs@wku.edu](mailto:scott.grubbs@wku.edu)****TEXTBOOK (required):****Biological Science: 3rd or 4th Edition (either is sufficient)****S. Freeman, Pearson Prentice Hall****OFFICE HOURS:****W: 10:15 - 11:15 a.m., or just stop by EBS 3124 whenever you need**

DATE	SUBJECT	TEXTBOOK MATERIAL
Aug 29: M	Course introduction	Chap.1
Aug 31: W	A snapshot of evolution	Chap.1
Sep 2: F	Evolution: Natural Selection	Chap. 24
Sep 5: M	LABOR DAY	NO CLASS
Sep 7: W	Evolution: Natural Selection (cont.) & Processes	Chap. 24, 25
Sep 9: F	Evolution: Processes	Chap. 25
Sep 12: M	Evolution: Speciation	Chap. 26
Sep 14: W	Evolution: Speciation (cont.)	Chap. 26, 27
Sep 16: F	Evolution: Phylogenies	Chap. 27
Sep 19: M	Evolution: Phylogenies (cont.)	Chap. 27
Sep 21: W	Exam 1	
Sep 23: F	Prokaryotic Life: Archaea & Bacteria	Chap. 28
Sep 26: M	Prokaryotic Life: Archaea & Bacteria	Chap. 28
Sep 28: W	Prokaryotic Life: Archaea & Bacteria (cont.)	Chap. 28
Sep 30: F	Eukaryotic Life: Protista	Chap. 29
Oct 3: M	Eukaryotic Life: Protista (cont.)	Chap. 29
Oct 5: W	Endosymbiosis: Eukaryotic Evolution	Chap. 29
Oct 7: F	FALL BREAK	NO CLASS
Oct 10: M	Eukaryotic Life: Green Algae & Plants	Chap. 30
Oct 12: W	Eukaryotic Life: Green Algae & Plants (cont.)	Chap. 30
Oct 14: F	Eukaryotic Life: Plants (cont.)	Chap. 30
Oct 17: M	Eukaryotic Life: Plants (cont.)	Chap. 30
Oct 19: W	Eukaryotic Life: Plants (cont.)	Chap. 30
Oct 21: F	Exam 2	

Oct 24: M	Eukaryotic Life: Fungi	Chap. 31
Oct 26: W	Eukaryotic Life: Fungi (cont.)	Chap. 31
Oct 28: F	Eukaryotic Life: Animalia	Chap. 33, 34
Oct 31: M	Eukaryotic Life: Animalia (cont.)	Chap. 33, 34
Nov 2: W	Eukaryotic Life: Animalia (cont.)	Chap. 33, 34
Nov 4: F	Eukaryotic Life: Animalia (cont.)	Chap. 33, 34
Nov 7: M	Eukaryotic Life: Animalia (cont.)	Chap. 33, 34
Nov 9: W	Eukaryotic Life: Animalia – Human Evolution	Chap. 33, 34
Nov 11: F	Exam 3	
Nov 14: M	Ecology: Populations	Chap. 52
Nov 16: W	Ecology: Populations	Chap. 52
Nov 18: F	Ecology: Populations (cont.)	Chap. 52
Nov 21: M	Ecology: Communities	Chap. 53
Nov 23: W	THANKSGIVING	NO CLASS
Nov 25: F	THANKSGIVING	NO CLASS
Nov 28: M	Ecology: Communities	Chap. 53
Nov 30: W	Ecology: Communities (cont.)	Chap. 53
Dec 2: F	Ecology: Ecosystems	Chap. 54
Dec 5: M	Ecology: Ecosystems (cont.)	Chap. 54
Dec 7: W	Diversity & Conservation	Chap. 55
Dec 9: F	Diversity & Conservation (cont.)	Chap. 55
Dec 15: R	Exam 4 = Final Exam: 10:30 a.m. – 12:30 p.m.	

COURSE PURPOSE: BIOLOGICAL CONCEPTS: Evolution, Diversity & Ecology (BIOL 122): is an introductory course in biology that emphasizes evolutionary patterns and processes, diversity of life (bacteria, archaea, protists, plants, fungi, and animals), ecological principles, and conservation and management. BIOL 122 is a required course in the Biology major, requires BIOL 123 as a corequisite, and can be taken either prior to or after BIOL 120/121.

GRADING: Your grade will be based on four examinations (40 pts each), six unannounced quizzes (lowest two quiz scores dropped – 5 pts each) and two short papers (10 pts each). All questions for each exam and quiz will be based solely on classroom lecture material and assigned, pre-announced reading from the textbook or other material. Quizzes will not commence until after the second exam. Instructions for paper requirements will be delivered at a later date. Your final grade will be based on a straight scale according to WKU 10-point grading scale: **A = 100-90% B = 89-80% C = 79-70% D = 69-60% F = 59-0%**

MAKE-UP EXAMS: Make-up exams **RARELY EXIST**. You should expect to be present for all exams. In order to qualify for the **RARE** make-up exam, you **NEED** to have contacted me prior to the exam. This is my rule and your main bargaining tool. Regardless, I reserve the right to decide if a make-up exam is afforded.

ACADEMIC DISHONESTY: No form of academic dishonesty will be tolerated. A grade of 0 (F) for the course will be assigned if a student is caught cheating or plagiarizing.

ATTENDANCE: Regular attendance is expected and is the most basic requirement of performing well on exams. Attending alone, however, is not enough if most of your in class time is spent on Facebook or struggling to stay awake.

CLASSROOM BEHAVIOR: My policy is simple: be on time and help create a positive learning environment free of distractions. This course is a requirement for all biology majors and needs to be treated with respect. In addition, food and sleeping are prohibited. Students unwilling to abide by my policy will be asked to leave the classroom.

DATES TO REMEMBER: Sept 7: last day to add or drop without a grade; Oct 20: last day to drop with a W

STUDENTS WITH DISABILITIES: In compliance with university policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Office for Student Disability Services in Downing University Center, A-200. The phone number is 270 745 5004. Please **DO NOT** request accommodations directly from the professor or instructor without a letter of accommodation from the Office for Student Disability Services.

Syllabus Statement Linking Course with General Education Goals and Objectives: This course fulfills the D-1 (Science/Mathematics) general education requirement. It will help you attain this general education goal and its corresponding objectives: An understanding of the scientific method and a knowledge of natural science and its relevance in our lives, specifically (these are only examples):

- a. how scientific knowledge is created, developed, and changed through experimentation and reasoning
- b. demonstration of knowledge in one or more of the sciences, including theories, concepts, and principles that explain observations and make predictions
- c. the outlining of the reciprocal relationship between humans and the rest of the ecosystem

The Learning Center (DUC A330) provides free supplemental education programs for all currently enrolled WKU students. TLC at DUC offers CRLA Certified, one-on-one tutoring in over 100 general education subjects by appointment or walk in and hosts a branch of the English Department's Writing Center. TLC is also a quiet study area, with side rooms designated for peer to peer tutoring, and offers a thirty two machine computer lab. Additionally, TLC has two satellite locations, one each in Douglas Keen Hall and in Pearce Ford Tower that provide computer and print service, tutoring, and quiet study areas. For more information, or to schedule a tutoring appointment, please call TLC at (270) 745 - 6254 or log on to our website at www.wku.edu/tlc. Hours TLC at DUC: Monday - Thursday 8:00am - 9:00pm; Friday 8:00am - 4:00pm; Sunday 4:00pm - 9:00pm TLC at Keen/PFT: Sunday - Thursday 6:00pm - 11:00pm