

BSC 1011 – General Biology II Syllabus Fall 2007

Lecture times: Tuesday, Thursday; 14:00 – 15:15

Lecture location: BBC HM135 (Hospitality Management, large lecture hall)

Instructor: Dr. Frank J. Jochem

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Office: BBC MSB-360

must use “BSC 1011” in subject line!

Office hours: Tuesday, Thursday, 15:30 – 16:30; preferably by appointment via email

Office hours are strictly for academic issues only. Office hours will not offer private review sessions for missed classes!

Required textbook: Raven, Johnson, Losos, Singer: Biology; 7th or 8th edition; McGraw-Hill Publishers, © 2005, 2007; ISBN 0072437316 (7th ed.) or ISBN 0073227390

Reading assignments as listed in the syllabus are essential to the comprehension of the course material. It is expected and mandatory that students read the assigned chapters prior to class.

Learning facilitation: Thorough study of reading assignment prior and after classes are expected. The book offers online resources for independent learning at http://highered.mcgraw-hill.com/sites/0072437316/student_view0/index.html. These online resources are very helpful for your studies; they provide quizzes and case studies to deepen your learning; they provide outside web links to deepen your reading on certain topics. It is expected that students use actively and intensely these online resources to facilitate learning.

Course description and learning outcome: BSC 1011 is a mandatory lower-division course for majors in Biology and Marine Biology and to be taken with BSC 1011L General Biology II Lab. BSC 1011 will provide a comprehensive overview of the diversity of life on Earth, from bacteria and viruses to mammals and higher plants, the dynamics of biodiversity and evolution and their shaping factors, the interaction of living organisms with their environment (ecology of species, populations, and communities), and the structure and biology of plant and animal phyla. Students will gain a working knowledge of scientific thought and an appreciation of biological diversity.

Course expectations: Regular class attendance is **mandatory** as is **appearance on time**. No cell phones or beepers are tolerated during class. Students are expected to have finished their reading assignment prior to each class and also are expected to utilize the online learning facilities provided by the textbook publisher. The course will provide two mid-term exams, each counting for 25% towards the final grade, and one final exam counting for 50% towards the final grade. Missed exams will count as zero points. The second mid-term will cover materials discussed after the first mid-term exam. The final exam will be **cumulative** over the whole course material. All exams will be multiple-choice questions to be answered on scantron forms. **There will be absolutely no make-up exams or any other extra credits! Exams will not be curved.** So don't even think about asking. Grade scale: A: >85%, B: 75-84%, C: 65-74%, D: 55-64%, F: <55%. Last day to drop class with a DR grade is November 2, 2007, 17:00 hrs. Be aware that the permanent grade “F-“ is implemented since fall 2004.

Date	Day	Topic	Assigned Reading
28 Aug	T	Genes and populations	21
30 Aug	R	Evolution, Darwin, and the origin of species	22, 23
4 Sep	T	Evolution of genomes and modern systematics	24, 25
6 Sep	R	Prokaryotes (Bacteria) and Viruses	26, 27
11 Sep	T	Protists	28
13 Sep	R	Fungi	30
18 Sep	T	Lower plants and Gymnosperms	29
20 Sep	R	The structure of higher plants	29, 35
25 Sep	T	Transport and nutrition in higher plants	37, 38
27 Sep	R	Plant development and growth control	36, 40
2 Oct	T	1. MIDTERM EXAM	
4 Oct	R	Structure and systematics of the Animal kingdom	31, 32 (633-635)
9 Oct	T	Sponges, Cnidarians, and the lower worms	32
11 Oct	R	Coelenterate invertebrates I: Mollusks, Annelids	33 (651-663)
16 Oct	T	Coelenterate invertebrates II: Arthropods	33 (664-675)
18 Oct	R	Coelenterate invertebrates III: Echinoderms	33 (676-680)
23 Oct	T	Chordates I: General characteristics and the invertebrate chordates	34 (683-689)
25 Oct	R	Chordates II: Sharks and Fishes	34 (690-697)
30 Oct	T	Chordates III: Amphibians, Reptiles, Birds	34 (698-713)
1 Nov	R	Chordates IV: Mammals	34 (714-726)
6 Nov	T	2. MIDTERM EXAM	
8 Nov	R	Behavioral Ecology	52
13 Nov	T	Population Ecology	53
15 Nov	R	Community Ecology	
20 Nov	T	THANKSGIVING – No Class or Hurricane catch-up	
22 Nov	R	THANKSGIVING – No Class or Hurricane catch-up	
27 Nov	T	Ecosystem Dynamics	55
29 Nov	R	No Class or Hurricane catch-up	
4 Dec	T	Ecological systems	56
6 Dec	R	Biodiversity and conservation biology	57
13 Dec	R	FINAL EXAM 12:45 – 14:30	

Course schedule may change dependent on tropical storm impacts

Assigned Reading refers to chapters of the course textbook. Reading assignments are expected to be completed prior to class. Continuous learning is essential and prerequisite for successful participation in the course. Online resources for the textbook at www.mhhe.com/raven7/ are strongly encouraged to be used to facilitate learning. Lectures may contain materials not included in the textbook. Absolutely no make-up exams or extra credits. Missed exams will count as zero points.

Sexual harassment policy: FIU is committed to eliminating sexual harassment. In accordance with the FIU Faculty Senate guidelines, this syllabus includes a warning that any misconduct will be reported.

Academic misconduct: FIU is committed to not tolerating any academic misconduct by students. In accordance with the FIU Faculty Senate guidelines, this syllabus includes a warning that any academic misconduct, particularly cheating in exams, will be reported and penalized.