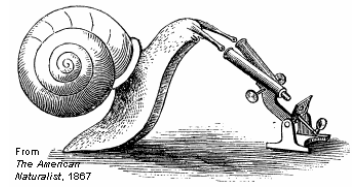


Biological Sciences – University of South Alabama
BLY 121 – Introductory Biology for Majors
Fall 2004 - Syllabus



Lecture/Laboratory Schedule: BLY 121: M, W, & F 8:00 –8:50; Life Science Lecture Hall 003
Labs will be conducted in Life Science Building Rm. 225

Instructor: Mr. C. S. Major, Life Science Building Rm. 132; Phone 460-6276 or 460-6331; e-mail smajor@usouthal.edu

Office Hours: 9:00 AM – 10:00 AM M,W, F; or by appointment

Text: Freeman, Scott. (1998) “*Biological Science*” (1st ed.) Prentice Hall, Inc. USA.

Laboratory Manual:

Online Lab Manual; USA Faculty (2004) Students will be required to download the each week.

Overview: Biology 121 is the first in a two-semester series of an introduction to biological principles. It is designed to meet the needs of students majoring in biology and/or other scientific disciplines (e.g., medical professionals, engineers, educators, etc.). Emphasis will be placed on the fundamentals of living systems, including the molecular constituents of cells, cell structure, metabolism, genetics, microevolution and aspects of classification. Students with an ACT composite score of less than 21 should first successfully complete BLY 101, CH 100 or CH 131 before enrolling in 121.

Evaluation: There will be a total of three lecture exams. The first two exams will be worth 150 points each. The final exam will be comprehensive; it will be worth 200 points. Final grades will be calculated as the percentage of points earned out of the possible 500 points total. Grading will adhere to guidelines set by the University of South Alabama.

Grade scale:	A	=	450-500 total pts.	90-100 %
	B	=	400-449	80-89
	C	=	350-399	70-79
	D	=	300-349	60-69
	F	=	0-299	0-59

Exams: All students will be required to bring a student ID and photo ID to exams and should be prepared to present them when handing in any exam. Only pencils and ID's will be allowed at seats during exams; all items including packs, bags, and cell phones will be placed at the end of the isle in which the student is sitting and picked up after the exam. **Failure to follow these instructions will result in the loss of points. Possession of cell phone, palm pilots and /or other electronic devices will be considered a cheating offense under all circumstances.**

Dishonesty: **Cheating on an exam/assignment will result in an automatic zero. Repeat offenders will receive a failing grade (F) in this course.**

Make-up exams: Such exams will only be given in the event of serious illness, death in the immediate family or University-excused absence. Students must request *prior* approval from the instructor to take a make-up exam, and present “official” documentation within one week of the absence. All make-up exam dates/times will be set according to the instructor’s discretion. **NOTE: These exams will be in essay format.**

Attendance: **It is expected that all students will arrive on time and attend all lecture/laboratory sessions.** If an absence is unavoidable, the student is responsible for all information and/or assignments he/she has missed. **Please be respectful of your fellow students by turning off cell phones, beepers, etc. for all class sessions.** Disruptive and/or discourteous behavior will not be tolerated.

Disability: “If you have a specific disability that qualifies you for academic accommodations, please notify me (the instructor/professor) and provide certification from Disability Services (Office of Special Student Services). The Office of Special Student Services is located in the Student Center, Room 270. It is our desire to provide all students with the tools required to succeed in Biology 121.

E-mail accounts: students need to activate their university e-mail accounts. This e-mail account will be used by university faculty and administrators to send official university correspondence such as financial aid notifications, grade information, university bills, course information, etc. Students may activate their e-mail account at the following address/URL: <<http://jaguar1.usouthal.edu>> or from the opening page of PAWS.

Tentative Lecture Schedule (Subject to Change as Needed)

Date	Topic	Text Pages
(Week of...) August 23	Orientation; Preface: Introduction; Ch 1: Biology and the Tree of Life Ch 2: The Atoms and Molecules of Ancient Earth	Preface 01-16 17 – 39
August 30	Ch 2: The Atoms and Molecules of Ancient Earth (cont.) Ch 3: Macromolecules and the RNA World	17 – 39 40 - 68
September 06	Ch 4: Membranes and the First Cells Ch 5: Cell Structure and Function	69 – 88 89 - 112
September 13	Ch 6: Respiration and Fermentation 1st Mid-Term	113 - 134
September 20	Ch 7: Photosynthesis Ch 8: Cell Division	135 – 154 155 - 174
September 27	Ch 9: Meiosis Ch 10: Mendel and the Gene	175 -193 194- 216
October 04	Ch 11: How Do Genes Work Ch 12: DNA Synthesis, Mutation, and Repair	217 – 231 232 - 251
October 11	Ch 13: Transcription and Translation Ch 14: Control of Gene Expression in Bacteria	252 – 273 274 - 294
October 18	Ch 15: Control of Gene Expression in Eukaryotes Ch 16: Genomes	295 – 316 317 - 334
October 25	Ch 17: Genetic Engineering and Its Applications 2nd Mid-Term	335 – 351
November 01	Ch 18: An Introduction to Development Ch 19: Early Development	353 - 369 370 - 390
November 08	Ch 20: What Determines a Cell's Fate Ch 21: Darwinism and the Evidence for Evolution	391 – 409 411- 428
November 15	Ch 22: Evolutionary Processes Ch 23: Speciation	429 – 448 449-465
November 22	Ch 24: The History of Life	466-481
December 06	Complete unfinished material and Review	
May 4	Final Exam: Comprehensive 8:00 – 10:00 AM	