

Biological Sciences II

Revised 11/28/2011

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<u>Course Number</u>	BIO 102 Classroom/Lab: B4 / B1 Lead Instructor: Dr. Abby Babock (babcocka@sccsc.edu) Department Chair: Dr. Berta Hopkins (hopkinsb@sccsc.edu)
<u>Prerequisite(s)</u>	BIO 101 with a minimum grade of "C".
<u>Co-requisite(s)</u>	None
<u>Course Description</u>	This course is a study of the classification of organisms and structural and Functional considerations of all kingdoms (particularly major phyla as Well as viruses). Vertebrate animals and vascular plants are emphasized.
<u>Course Outcomes</u>	Students should be able to demonstrate: <ol style="list-style-type: none">1. Rationality, logic and coherence through critical thinking;2. Their ability to express themselves effectively in quantitative and qualitative terms;3. The scientific method of inquiry;4. Their ability to access, retrieve, synthesize and evaluate information.
<u>Textbook</u>	Selected Chapters From BIOLOGY, 10 th Ed. BIO 102: Biological Science II Special Edition <i>Sylvia S. Mader</i>
<u>Lab Manual</u>	Selected Labs from Laboratory Manual to Accompany: BIOLOGY 10 th Ed. BIO 102 <i>Sylvia Mader</i> .
<u>References</u>	N/A
<u>Other Required Materials, Tools, And equipment</u>	All lecture notes will be posted on blackboard and/or the Science Dept. Website. Any additional resources (handouts) will be provided to the Student by the instructor.
<u>Method of Instruction</u>	Lecture and discussion, demonstrations, audio-visual materials, on-line resources, projects, and written exams.
<u>Grading system</u>	90 - 100 = A 80 - 89 = B 70 - 79 = C 60 - 69 = D Below 60 = F

<u>Grade calculation</u>	Lecture exams (100 pts each) x 4	= 400
	Presentation topic paper	= 10
	Presentation	= 90
	Lab exams (100 pts each) x 3	= 300
	Final Exam (required & comprehensive)	= 200
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Attendance Policy See Student Handbook Pages 77-80
The withdrawal date for Fall semester will be **04/02/2012**

Academic Conduct Academic dishonesty
Please See Student Handbook Page 98

Cellular phones and pagers/beepers
Please see Student Handbook Pages 76-77

Class procedures **Biology requires no one miss over 10 hours of lecture**
Preparation:

1. Read over the material before coming to class.
2. Come prepared to do the work each day.
3. Be in your place with lecture notes at the beginning of each class.
4. Pay careful attention to the printed instructions.
5. Be considerate of your class associates. Your activities may disturb them so they are unable to benefit from the lecture/lab.
6. Report immediately to the instructor any emergencies or injuries that occur.

Accommodations Students who need special accommodations in this class because of a documented disability should notify Student Disability Services by calling (864) 592-4818, toll-free 1-800-922-3679; via email through the SCC web site at www.sccsc.edu/resources/disabilities; or by visiting the office located in the East Building Room 30-B on the SCC Central campus. Contacting Student Disability Services early in the semester gives the College an opportunity to provide necessary support services and appropriate accommodations.

Course
Competencies &
Objectives

Upon satisfactory completion of this course, the Student will be able to:

1. rationality, logic and coherence, through critical thinking;
2. their ability to express themselves effectively in written and oral communication;
3. their ability to express themselves effectively in quantitative and qualitative terms;
4. the scientific method of inquiry;
5. their ability to access, retrieve, synthesize and evaluate information.
 - a. Identify anatomical structures and life cycles of Viruses
 - b. Identify and differences between Prokaryotes vs. Eukaryotes
 - c. Identify classification systems and characteristics for Domain Bacteria & Domain Archaea and place representative organisms within the classification system.
 - d. Identify classification systems and characteristics for Domain Eukarya.
 - e. Identify classification systems and characteristics for Kingdom Protista and place representative organisms within the classification system.
 - f. Identify classification systems and characteristics for Kingdom Fungi and place representative organisms within the classification system.
 - g. Identify classification systems and characteristics for Kingdom Plantae and place representative organisms within the classification system.
 - h. Identify classification systems and characteristics for Kingdom Animalia and place representative organisms within the classification system.
 - i. Identify organ systems, their function in humans, and place organs in correct systems.
 - j. Prepare and present a scientific presentation on an aspect of biology. Perform laboratory assignments, collect data, and formulate conclusions based on experimental results.

BIO 102 SCHEDULE SPRING 2012

LECTURE (Tue & Thur) Room B4	LAB (Wed) LAB B1
1/10: Syllabus overview & Chapt 15 1/13: Chapt 16	LAB overview & Lecture Chapt 15/16
1/17: Chapt 17 1/19: Chapt 19	LAB 13 – Natural Selection (Begin Bacteria)
1/24: EXAM 1 1/26: Chapt 20	LAB 14 - Bacteria & Protists
1/31: Chapt 20 1/2: Chapt 21	LAB 15 – Fungus
2/7: Chapt 22 2/9: EXAM 2	PRACTICAL #1
2/14: Chapt 23 2/16: Chapt 23	LAB 16– Nonvascular/ Seedless Vascular Plants
2/21: Chapt 24 2/23: Chapt 24/26	LAB 17– Seed Plants
2/28: Chapt 26 3/1: EXAM 3	LAB18 – Angiosperm Organization
3/6: Plant scavenger hunt 3/8: WORK DAY- no class	PRACTICAL #2
3/13: Chapt 28 (Topic Papers Due!) 3/15: Chapt 28	LAB 22 – Animals I
3/20: CADAVER LAB? 3/22: Chapt 29	LAB 23– Animals II
3/27: Chapt 30 3/29: EXAM 4	LAB 24– Animals III
4/3: SPRING BREAK no class 4/5: SPRING BREAK no class	SPRING BREAK no Lab
4/10: Chapt 43 4/12: Chapt 44	PRACTICAL #3 (Presentations Due)
4/17: Chapt 45 4/19: Chapt 47	PRESENTATIONS
4/24: Presentations cont.	EXAM 5

- Dates/Times and material is subject to change. Final Exam time and date is dependent on your section.