

Lab is a separate class from the lecture. The timing of lab and lecture topics will not always align depending on schedules. Even though they are less credit hours, labs will require the same amount of study time! You are required to print out the syllabus and the supplemental packet. You may bring a tablet or laptop to lab if you do not want to print the pages.

TENTATIVE SCHEDULE for
BSC 2010 – General Biology I Lab

READINGS			
Week of	Lab Topic	Lab Manual Section	Lecture Text
Jan 12	Introduction [‡] , Safety [‡] ; Metric	2.0-2.1, p.viii, Append B	
Jan 19	(<i>Holiday – M</i>) Metric; Microscope [‡]	2.2 – 2.5; lab review	p. 60 – 63
Jan 26	Cell structure [‡] ; pH (<i>Monday: Metric & Microscope make-up</i>)	4.0–4.2,4.5, review;	p. 60-87; 29-30;
Feb 2	DNA isolation, Review for Test	11.4	p. 41-44
Feb 9	TEST I		
Feb 16	Cell function, Osmosis [‡]	4.3 – 4.4; lab review	p. 59 – 99
Feb 23	Enzymes (<i>Fri: EDP day no-lab</i>)	5.0 – 5.4, lab review	p. 113 – 119
Mar 2	Cellular respiration [‡] , Fermentation [‡] (<i>Friday: Enzymes Lab make-up</i>)	7.0 – 7.2, lab review	p. 122 – 143
Mar 9	TEST II ; Mitosis, Meiosis	8.0 – 8.2	p. 186 – 218
Mar 16	SPRING BREAK		
Mar 23	Mendelian genetics [‡]	8.2 - 9.4, lab review	p. 221 – 236
Mar 30	Human genetics [‡] , Karyotyping [‡]	10.0 – 10.2, lab review	p. 239 – 253
Apr 6	Evolution [‡]	Exercise in lab packet	p. 396 - 414
Apr 13	Microscope Review and Exam		
Apr 20	Comprehensive Final – Normal class time		

[‡] **Required pre-lab readings in Lab packet**

LAB MANUAL: Biology Laboratory Manual, 10th ed. by Mader, 2010 (full text)
Biology Laboratory Manual, 10th ed. by Mader, 2010, Volume 1 (IRSC Special Print)**, 2d edition

**recommended as this is a special version of the textbook for IRSC students only

Lecture Text: Biology, 10th ed. By Raven et.al., 2014
 Student study guide is optional; Suggested reading: How to Study Science by Drewes

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GRADES: Grades are based on two, 100 point unit exams and one 200 point comprehensive final exam. (The final exam is a 100-point exam, whose grade is doubled). The final grade will be calculated as the average of the three highest 100 point exams (i.e. one of the unit exams or one of the two 100-point final exam grades will be dropped, whichever is lowest). A microscope focusing exam will be given before the comprehensive final exam. The microscope exam is worth 20 points of the 200 points on the final exam.

To figure your score on the final exam:

$$[(\text{score on 100 point exam}) \times 2 \times 0.9] + \text{score on microscope test}$$

The grades are assigned on the following basis:

A: 90 - 100

B: 80 - 89

C: 70 - 79

D: 60 - 69

F: below 60

No extra credit projects will be granted beyond the test assignments.

W = withdraw by Tues, Mar 24

I = incomplete for passing students only in EXTREME cases

ATTENDANCE: Attendance in lab is **mandatory**. Students are expected to participate in laboratory activities in order to be successful on lab practical examinations. To effectively utilize lab time, preparation is required on the part of the student. The student must read the assigned laboratory exercises and attached handouts **prior to** lab and be familiar with details for lab and for lab practicals **BEFORE** lab starts. (Note: The above schedule is only tentative and each student is responsible for knowing exact assignments and test arrangements.) Attendance will be monitored.

LAB ATTIRE: Appropriate attire is required for your protection. In keeping with Federal regulations, students are required to wear flat closed-toe, close-heel shoes in laboratory. The attire worn in the laboratory work setting should include full coverage of legs (long pants or skirt), shirt with sleeves (not low cut and no bare midriff), hair restraints for long hair, and no dangling jewelry. **If you do not come properly dressed for lab, you will NOT will allowed in.**

ELECTRONIC DEVICES: All electronic communication devices are prohibited during exams or quizzes. The use of cell phones is prohibited during class and must be set on *silent* or *off* during the class period. Any student who uses a cell phone to make or answer a call, or send and/or read text messages or emails during class time may be asked to leave and considered absent for that class. Electronic devices may be used to take pictures of slides or models.

CHEATING: Cheating of ANY kind **WILL NOT** be tolerated by this Department or the College. Anyone caught cheating will automatically receive a minimum of a zero for that assignment. Any further episodes will result in an F in the class. Anyone who witnesses this inexcusable behavior and does not report it is also considered to be guilty of improper conduct.

MAKE-UP POLICY: Students should take their lab exams with their lab section at the assigned time. If a student is unable to attend the scheduled exam, it will be counted as a zero. **No make-up unit**

exams will be given. A student cannot make up an exam at a time other than their scheduled lab period. One missed unit exam (zero grade) will be dropped as the lowest grade as described above. If a student misses the final exam, they must contact the instructor within 24 hours of the schedule exam time with a verifiable emergency. Otherwise, they will be issued an incomplete for the course if they are currently passing the course; if they are not currently passing the course, the missed final will count as a double score of zero as described above.

OPEN LAB POLICY: Refer to General Lab Rules handout

LEARNING OUTCOMES: at the completion of the course, the student will be able to:

- Communicate major biological concepts and relate how these are connected within various areas of the biological and physical sciences in a laboratory setting.
- Apply critical thinking skills to provide the foundation for lifelong learning and career development

If you are experiencing difficulty in your course, your first obligation is to work directly with your instructor to resolve the issue. If you are unable to settle your concerns with the assistance of your instructor, you can contact the Department Chair (**Sherry Bowen**: sbowen@irsc.edu 772-462-7502), who will assist you or advise you about contacting the Academic Dean (**Dr Paul Horton**: phorton@irsc.edu 772-462-7520) or Vice President (**Dr. Tony Iacono** aiacono@irsc.edu 772-462-7215).