

TENTATIVE SCHEDULE

Life Science Lab

WEEK OF	LAB TOPIC	READING IN LAB MANUAL	READING IN LECTURE TEXT
Aug 28	Lab safety, Scientific method	p. 3-4, 9-10, 11(1-3a) 14(7a-g)	Module 1.3
	Metric system	p. 4-8, 11-14(3b-6b)	Appendix 1, p. 782
Sep 4	Metric system, cont. <i>No Monday Classes Sep 4—Labor Day Holiday</i>		
Sep 11	Microscopes	p. 15-22, 25-28(1a-5f) (7a-7e)	Modules 4.1, 4.2
Sep 18	Cells	p. 29-38, 41-44(1-7c)	Modules 4.4 - 4.20
Sep 25**	EXAM I		
Oct 2	Diffusion and osmosis	p. 65-71, 73-75(all)	Modules 5.12 - 5.16
Oct 9	Cell Cycle, Mitosis, Meiosis Take handout on karyotyping	p. 99-106, 107-110 (1-3g)	Modules 8.3 - 8.7, 8.11 8.12 - 8.15
Oct 16	Karyotyping, non-disjunction	Handout; p. 134	Mod 8.15 - 8.22
Oct 23	Molecular genetics	p. 127-133, 135-138(all)	Modules 10.2- 10.16
Oct 30**	EXAM II , Human systems	p. 153-157, 165-166(1-2)	Module 20.9
Nov 6	Human systems, cont. Circulatory system <i>No Friday Classes Nov 10—Veteran's Day</i>	p. 189-198, 199-202(1,3-4)	Modules 23.3 – 23.12
Nov 13	Circulatory system, cont. Blood	p. 203-208, 209-211(all)	Modules 23.13- 23.16
Nov 20	Blood, cont. <i>No Thursday and Friday Classes Nov 23 and 24—Thanksgiving Holiday</i>		
Nov 27	Vascular plants	p. 340-344, 347-348(5a-j) p. 349-350, 354-356, 357, 359(4a-g)	Module 31.2 -31.13
Dec 4**	EXAM III		

REQUIRED TEXTS:

Biological Explorations, by Gunstream. 5th Edition. MacMillan College Publishing Co.
Biology: Concepts and Connections, 4th Edition by Campbell, Reece, Mitchell, Taylor

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EXAMS:

Three exams will be given covering assigned materials. Exact dates of exams will be announced in lab.

Grades:

Three practical exams will be given. Grades for the semester are based upon the average of the Exam 3 grade and the best of the first two exam grades. No extra credit projects will be granted beyond the test assignments. Grades are assigned on the following basis:

A: 90-100, B: 80-89, C: 70-79, D: 60-69, F: below 60

Make-up policy:

Students should take their lab practical with their lab section at the assigned time. If a student is unable to attend that practical, he/she **MUST** obtain permission **within 24 hours** in order to arrange to take the practical with his/her instructor in a different lab section during the test week (provided space is available), or discuss other options with his/her instructor.

Attendance:

Students are expected to **attend all labs**. Students are responsible for knowing exact dates and times of exams, results of lab experiments, exact arrangements for written assignments, etc.

Withdrawal:

Please contact the instructor if you feel that you need to withdraw. It might not be necessary. You will NOT be automatically withdrawn if you stop coming to class. Withdrawal requires that you submit an official IRCC form which can be obtained at Educational Services or any site office. Students wanting to withdraw with a W must do so by the withdrawal date listed in the course schedule, **November 15, 2006**.

Cheating:

Cheating of ANY kind WILL NOT be tolerated by this Department. Anyone caught cheating will automatically receive an F for the semester (No withdraws allowed for cheaters). Anyone who witnesses this inexcusable behavior, and does not report it, is also considered to be guilty of improper conduct.

BSC 1005L Course Objectives:

- To increase student understanding of the metric system & scientific method of problem solving.
- To establish in the student an understanding of how the microscope works and an appreciation of its importance in biological research.
- To establish in the student an understanding of the structure and function of the plant and animal cell.
- To have the student understand the molecular basis of inheritance and biotechnology.
- To have the student understand the anatomy and physiology of the human body.
- To have the student understand the structure and physiology vascular plants.

Study tips:

- Read lab assignment **before** coming to lab.
- Review important terms and background information.
- List unanswered questions or unclear concepts. Ask these when instructor calls for questions at the **start** of the lab.
- Bring your lecture textbook with you to lab to use as a reference.
- Carefully label and color code illustrations in lab manual.
- Use your CD that comes with your lecture textbook, or log on to the publisher's web site at www.campbellbiology.com.
- Click on "Lab Resources" at <http://faculty.ircc.edu/DEPT/BiologicalSciences>