

Spring, 2005

LECTURE & READING SCHEDULE**Biology 230**

INSTRUCTORS	OFFICE	HOURS	PHONE	E-MAIL
Barry Rothman	HSS-112	M, 10:30-12:30; Th, 2:30-4:30	x82418 (no VM)	brothman@sfsu.edu
Maureen Whalen	HH-722	Tu, 3:00-4:00; W, 10:30-11:30	x86475	whalen@sfsu.edu
Grisel Ponciano	HH-725	W, 10:15-11:15	x87099	griselp@sfsu.edu

Blackboard (BB): <http://online.sfsu.edu> (enroll in **Bio 230 – INTRO BIO I – Lecture – S'05** with access code bio230s05; deadline Feb 14). You should be enrolled in both Bio 230 lecture and Bio 230 lab BB sites.

REQUIRED MATERIALS:

- † **Lecture Text:** Campbell & Reece, 2002, *Biology*, 6th edition, ISBN 0-8053-6624-5. A 7th edition has just been published; 4th and 5th editions are acceptable; earlier editions are not advised.
- † The accompanying CD, *Student Media*, ISBN 0-8053-6762-4, is bundled with the text.
- * **Bio 230 Lecture Supplement:** Print-outs of illustrations used in lecture.
- † **Exam Forms:** Students are required to purchase 4 ZEUS answer sheets for lecture exams.
- **For Lab:** 1) * *Laboratory Manual, Intro. Bio. I*, 2) † Dolphin, W., *Biological Investigations*, 5th edition, 3) (recommended) † Van De Graaff, and Crawley, *A Photographic Atlas for the Biology Laboratory*, 4) # microscope slides, cover slips, pipette bulb, safety goggles, 5) † dissection kit.

Notes: † = SFSU Bookstore, * = Grd Stu Council, location TBA, **cash only**, (gscb@sfsu.edu), # = Bio Stckrm (Trlr Q3)

DATE	LECTURE TOPIC	TEXT ASSIGNMENT
1/31	Introduction & Basic Chemistry for Biologists 1 -----	Ch 2
2/1-2/2	LAB SECTIONS BEGIN – You Must Take and Pass Qualifying Exam to Enroll in Bio 230	
2/2-2/9	Basic Chemistry for Biologists 2-5 -----	Ch 3; Ch 4; Ch 5
2/11-2/18	Cell Structure and Function 1-4 -----	Ch 7; Ch 27 (pp. 521-536); Ch 28 (pp. 548-550); Ch 8
Mon, 2/21	LECTURE EXAM #1 - covers material through 2/18 (9 lectures)	
2/23-2/25	Cell Division 1-2 -----	Ch 12; Ch 13
Fri, 2/25	LAST DAY TO DROP WITHOUT “W” ON TRANSCRIPT	
2/28-3/4	Molecular Genetics 1-3 -----	Ch 16; Ch 17; Ch 19 (pp. 354-356)
3/7-3/11	Classical Genetics 1-3 -----	Ch 14; Ch 19 (pp. 362-368)
3/14-3/16	Thermodynamics and Enzymes -----	Ch 6
Fri, 3/18	LECTURE EXAM #2 - covers material from 2/23 through 3/11 (8 lectures)	
3/21-3/25	HOLIDAY -- Spring Break (No Class)	
3/28-3/30	Cellular Respiration 1-2 -----	Ch 9
Thurs, 3/31	LAST DAY TO WITHDRAW WITH "W" UNDER RELAXED RULES	
4/1-4/4	Cellular Respiration 3-4 -----	Ch 9
4/4-4/11	Photosynthesis 1-4 -----	Ch 10
4/13-4/15	Plant Structure, Function and Growth 1-2 -----	Ch 35; Ch 39 (pp.802-806; 809-810)
4/18-4/22	Plant Transport 1-3 -----	Ch 36
Mon, 4/25	LECTURE EXAM #3 - covers material from 3/14 through 4/15 (11 lectures)	
4/27	Plant Transport 4 -----	Ch 36
4/29	Animal Cells -----	Ch 40 (pp. 834-842)
5/2	Digestion -----	Ch 41 (pp. 859-866)
5/4	Circulation-----	Ch 42 (pp. 875-886)
Thurs, 5/5	ADVISING DAY - make an appointment to see your academic advisor!	
5/6	Respiration -----	Ch 42 (pp. 889-895)
5/9-5/11	Excretion 1-2-----	Ch 44 (pp. 936-938; 944-952)
5/13-5/16	Nervous System 1-2-----	Ch 48 (pp. 1022-1038)
5/18	Endocrine System -----	Ch 11, Ch 45 (pp 960-972)
5/20	Immunology-----	Ch 43
Wed, 5/25	LECTURE EXAM #4 - covers material from 4/18 through 5/20 (14 lectures)	
8:00 -10:30 am	& FINAL COMPREHENSIVE EXAM (entire semester)	

- COURSE GRADE:** Lecture exam performance constitutes 60% of the course grade.
Laboratory performance constitutes 40% of the course grade.
- LECTURE EXAMS:** Each of the five exams (Lecture Exams I-IV and Final Exam) will consist of about 50% multiple-choice questions and 50% short-answer questions; each exam constitutes 19% of the lecture grade. The comprehensive Final Exam covers integrative concepts from the entire semester. Lecture Exam IV and the Final Exam will be held together on Wed., May 26, 8-10:30 am, Sci 201. Online assignments will constitute 5% of the lecture grade.
- LABORATORY POINTS:** Your laboratory instructor will discuss requirements and grading.
Labs begin Thurs., 1/29 (Tu-Th sections) or Fri., 1/30 (Wed-Fri sections).
- GRADE ASSIGNMENTS:** **A:** 100-90%, **A⁻** to **B:** 89.9-80%, **B⁻** to **C:** 79.9-70%, **C⁻** to **D** 69.9-60%, **F** 60% or less. Plus/minus grades are given.

DROP AND WITHDRAWAL POLICY

The Biology Department and instructors in this class adhere to the SFSU policies as stated in the *Spring, 2005 Class Schedule* and the *2004-2005 SFSU Bulletin*.

Please note that the following schedule and rules are **STRICTLY ENFORCED!!**

- 2/25** **Last day to drop a class without "W" appearing on your transcript.** Use the touch-tone system to drop; no forms are required.
- 2/26-3/31** **Relaxed Withdrawal:** To withdraw, you must submit a completed *Petition for Withdrawal* form; no other supporting documentation is required. The form must be **approved** and **signed** by one of the instructors, then submitted to the **Department of Biology Office, Franciscan Bldg**, for final review by the Chair. When processed, a "W" appears on your official transcript.
- 4/1-4/29** **Strictly Enforced Withdrawal:** You must submit a completed *Petition for Withdrawal* form with **supporting documentation**, an **unofficial SFSU transcript** and your current enrollment at SFSU. The form must be **approved** and **signed** by one of the instructors, then **you** must submit it to the **Department of Biology Office, Franciscan Bldg**, for final review by the Chair. Withdrawal is permitted only for **serious and compelling reasons** that prevent the student from attending class. Petitions will not be approved because you are not doing well, you took on too many units, you find the course too hard, too easy, or you lack prerequisites; these are reasons for dropping by 3/31. Appropriate documentation consists of a **letter** from the student's doctor, employer, etc., submitted on **letterhead or official stationery** stating that as of a **certain date** you were unable to attend class due to an **illness, accident, or increase/change in work hours**. If approved, a "W" appears on your official transcript. If not approved, you will remain a registered student in the class and will receive a final grade based on your performance during the entire semester.
- 4/30-5/20** **Total Withdrawal:** Withdrawals are normally not permitted except in cases of **verified accident or serious illness where the cause of withdrawal is due to circumstances clearly beyond the your control and where the assignment of an incomplete is not appropriate**. Ordinarily, withdrawals during this period involve **total withdrawal** from the University.

Multiple Withdrawals: A student may withdraw from an individual course no more than two times, no matter what their circumstances are. The third time that a student enrolls in the same course they **cannot** withdraw for any reason.

Incomplete: If over **70%** of your combined lecture and lab work has been completed, you may qualify for receiving an incomplete ("I"). This requires submission of a signed *Petition for Incomplete* form with an **unofficial SFSU transcript**. The incomplete work must be finished within one year to avoid the "I" becoming an "F".

This handout is intended to make clear what constitutes cheating and how it will be dealt with.

Cheating is a serious offense and will be severely punished.

Copying: Copying answers or using notes during an exam is considered cheating. Please keep your eyes on your own paper.

Plagiarism: Plagiarism is considered cheating. It is defined as using another person's words without quotation marks and/or reference. Although in preparing assignments you may paraphrase written information from texts or articles, you must use your own words, and demonstrate that you understand that information. If you quote directly from a source, you must indicate this with the use quotation marks and cite the source of information.

Altered Answers: Changing an answer on an assignment, then trying to have the grade changed is considered cheating.

Impersonation: False representation of yourself as someone else in this course is a gravely serious offense. Please be prepared to show photo identification, preferably a student I.D. card or driver's license, if asked.

False Grade Change: Forging or altering a grade change form is also a gravely serious offense. The Registrar's Office is wise to this; they carefully check signatures and send copies of all grade change requests to the faculty member.

Consequences: A person cheating in an assignment receives a 0 for that assignment; his/her name and a description of the offense is sent to the Dean of Students. Cheating offenses are punished by disciplinary probation, suspension, or expulsion. These actions are noted on your transcript! Please see the Student Conduct/Discipline Section of the current *SFSU Bulletin* for more information on student cheating and penalties.

If You See Cheating: If you think a fellow student is cheating we urge you to discretely tell us about it. We will maintain your anonymity.

	Lecture Mon	Lab Tues/Wed	Lecture Wed	Lab Thurs/Fri	Lecture Fri
Jan./ Feb.	31 1-BR Intro & Chem1	1 <i>Orientation Qual Exams</i>	2 2-BR Chem 2	3 <i>Scientific Methods</i>	4 3-BR Chem 3
	7 4-BR Chem 4	8 <i>Spectrophoto- metry</i>	9 5-BR Chem 5	10 <i>Assaying Organic Molecules</i>	11 6-MW Cells 1
	14 7-MW Cells 2	15 <i>Prokaryotic Cells</i>	16 8-MW Cells 3	17 <i>Eukaryotic Cells</i>	18 9-GP Cells 4
	21 Lect Exam #1	22 <i>Mitosis</i>	23 10-MW Cell Division 1	24 <i>Mitosis & Meiosis</i>	25 11-MW Cell Division 2
Feb./ Mar.	28 12-MW Molec Gen 1	1 <i>Meiosis & Sexual Reproduction</i>	2 13-MW Molec Gen 2	3 <i>Genetics 1</i>	4 14-MW Molec Gen 3
	7 15-MW Classic Gen 1	8 Lab Exam 1	9 16-MW Classic Gen 2	10 <i>Genetics 2</i>	11 17-GP Classic Gen 3
	14 18-BR Thermo	15 <i>Genetics 3</i>	16 19-BR Enzymes	17 <i>Genetics 4</i> ⁸ <i>Lab Exam 1</i>	18 Lect Exam #2
	21 Spring Break	22 Spring Break	23 Spring Break	24 Spring Break	25 Spring Break
Mar./ Apr.	28 20-BR Cellular Resp 1	29 <i>pH & Buffers</i>	30 21 BR Cellular Resp 2	31 No Class Cesar Chavez Day	1 22-BR Cellular Resp 3
	4 23-BR/MW Cell Resp 4/Photosyn 1	5 <i>Enzymes</i>	6 24-MW Photosyn 2	7 <i>Fermentation & Respiration</i>	8 25-GP Photosyn 3
	11 26-GP Photosyn 4	12 <i>Photosynthesis</i>	13 27-MW Plant 1	14 <i>Primary Growth; Tissues in Plants</i>	15 28-MW Plant 2
	18 29-MW Plant Transport 1	19 Lab Exam 2	20 30-MW Plant Transport 2	21 <i>Diffusion & Osmosis</i>	22 31-MW Plant Transport 3
	25 Lect Exam #3	26 <i>Transpiration; Tissues & Transport</i>	27 32-MW Plant Transport 4	28 <i>Secondary Plant Growth</i>	29 33-BR Animal Cells
May	2 34-HH/BR Digestion	3 <i>Plant Hormones</i>	4 35-BR Circulation	5 No Class Advising Day	6 36-BR Respiration
	9 37-BR Excretion 1	10 <i>Digestion, Digestion Systems</i>	11 38-BR Excretion 2	12 <i>Respiratory & Circulatory Systems</i>	13 39-HH Neuroscience 1
	16 40 BR Neuroscience 2	17 <i>Excretory Systems; Kidney</i>	18 41-BR Endocrinology	19 Lab Exam 3	20 42-BR Immunology
	23 Finals	24 Finals	25 8-10:30am Lect Exam #4 & Final Exam	26 Finals	27 Finals

BR: Barry Rothman's Lectures
 MW: Maureen Whalen's Lectures
 GP: Grisel Ponciano's Lectures
 HH: Heather Heersen's Lectures