

Biology 103: General Biology I
Course Syllabus
Fall 2007

Eric J. Berry, Ph.D.

Office: Goulet Science Building, Room 2324

Office hours: Mon. 9:30 – 12:00,

Wed. 9:30 – 12:00; other by appointment

Phone: 641-7373

e-mail: eberry@anselm.edu

Web page: <http://www.anselm.edu/faculty/eberry>

Course description

Biology 103 provides a study of cellular and organismal life, including foundation principles in cell biology, biochemistry, genetics, and evolution. Throughout the semester we will survey representative organisms from each of the major biological groups, with an in-depth look into plant form and function (animal form and function will be emphasized in Biology 104).

Course meeting times

Lecture:	M W F	8:30 – 9:20 am	Perini Lecture Hall (Goulet 2205)
Recitation:	W	1:30 – 2:20 pm	Perini Lecture Hall (Goulet 2205)
Labs:	A T	8:30 – 11:20 am	Goulet 2302 Murphy
	B T	8:30 – 11:20 pm	Goulet 2304 Berry
	C T	1:30 – 4:20 pm	Goulet 2302 Murphy
	D T	1:30 – 4:20 pm	Goulet 2304 Berry
	EE Th	1:30 – 4:20 pm	Goulet 2302 Murphy
	E Th	1:30 – 4:20 pm	Goulet 2304 Berry

Required texts

- Campbell, N.A. and J.B. Reece. 2005. *Biology*, 7th edition. Benjamin Cummings Publishing
- Morgan, J.G. and M.E.B. Carter. 2005. *Investigating Biology*, 5th edition. Benjamin Cummings
- Laboratory notebook

Blackboard

The blackboard academic suite™ is an important online resource for this course and will be used to post announcements, assignments, grades, and lecture outlines. You can access blackboard using your student ID and password at: <http://blackboard.anselm.edu/>

Recitation

Attendance at recitation is mandatory. This period will be used for a variety of purposes including exam reviews, lab quizzes, lab previews, video viewing, and discussion. Recitation topics will vary depending on the needs of the class.

Attendance Policy

Attendance at lecture, recitation and lab is mandatory, and excessive absences will affect your final grade. An 'excused' absence is one documented by notification of the Dean's Office. All other absences are considered 'unexcused'. For every unexcused absence beyond the number permitted (see below) your final course grade will be reduced by 5%. Keep in mind that **work missed (e.g. quiz or exam) resulting from any unexcused absence may not be made up.**

- For excused absences, contact me in advance so that the make-up option may be arranged.
- You will be permitted **a total of 3** unexcused absences from lectures and/or recitations.
- You will be permitted **1** unexcused absence from lab.

Athletics and Attendance

It is my goal that student athletes achieve all their athletic goals in addition to attending all their classes and labs. For this to happen it is important that you notify me of any scheduling conflict *in advance* and *in person* so that we can make alternate arrangements when necessary. Student athletes must submit to me a signed '**Class Conflicts for Student Athletes**' form or they will not be excused from class.

Semester Grade:

Grade	%	Grade	%	Points Distribution	
A	>93	C	74-76	Lecture exams ^a (3 @ 100 points)	300
A-	90-93	C-	70-73	Lab Quizzes ^b (4 @ 15 points)	60
B+	87-89	D+	67-69	Lab practical ^c	50
B	84-86	D	64-66	Lab notebook ^d	20
B-	80-83	D-	60-63	Final exam ^e	100
C+	77-79	F	<60	Attendance / Participation	20
				Total Points	550

Note: No extra credit work will be assigned or accepted.

^aExams will include any of the following: multiple choice, matching, or true/false. Only the final exam is cumulative.

^bLab Quizzes will be given during recitation of select weeks (see course schedule). Quiz questions will be based primarily on information covered in lab, but will also include questions from the relevant topics in lecture. The quizzes are not cumulative and will only cover material since the previous quiz. The lowest of the five quizzes will be dropped.

^cLab practical will be based on laboratory information only. A practical differs from quizzes by emphasizing the 'hands-on' nature of laboratory work. Whenever possible, practical questions will be based on 'real life' biological specimens from lab exercises.

^dLab notebooks will be kept as a journal of the organisms and concepts examined during laboratory exercises – more information will be given during your first lab period.

^eFinal exam for Biology 103 will be held on Friday, Dec. 15 at 9:00 AM. Approximately half (50 pts) of the exam will be based on new material and approximately half (50 pts) will be cumulative, for a total of 100 pts.

Academic honesty

The standards of academic honesty are very high at Saint Anselm, and it is recommended that you review the policy set forth in your Student Handbook (pp. 14-15). Depending on the severity of the infraction cases of cheating or plagiarism may result in a failing grade of the assignment/exam in question, failing grade in the course, or expulsion.

Cell phone policy

Cell phones, pagers, etc. are an unnecessary distraction and are not to be used in lecture or laboratory classes. Furthermore, because camera phones and text messaging have been used to cheat in university courses, handling a cell phone during an exam will be viewed as cheating. In such an instance, you will be escorted from the room and given a failing grade on the exam.

Academic Resource Center

The Academic Resource Center (ARC) at Saint Anselm College offers peer tutoring, which has proven to be very helpful to students in BI 103. To request a peer tutor, complete the online form at:

<http://www.anselm.edu/administration/arc/>

Biology 103: General Biology I
Course Schedule
Fall 2007

Week of:	Lecture & Recitation Topic	Text Chps.	Laboratory
Cells & the Chemical Context of Life			
Aug. 27	Course Introduction		No lab - First week
	Exploring life	1	
	<i>Recit: Lecture - Chemical basis of life</i>	2	
	Water and the environment	3	
Sept. 3	Carbon and molecular diversity	4	Microscopy and Scientific Method
	Macromolecules	5	
	<i>Recit: Quiz 1</i>		
	Cell structure	6	
Sept. 10	Cell structure	6	Prokaryotic and Eukaryotic cells
	Cell membranes	7	
	<i>Recit: Ethics and Biotechnology I</i>		
	Metabolism	8	
Sept. 17	Cellular respiration	9	Respiration and Fermentation
	Photosynthesis	10	
	<i>Recit: Quiz 2</i>		
	Photosynthesis	10	
Sept. 24	The cell cycle / Review	12	Photosynthesis
	Exam 1 (Wednesday, Sept. 26)		
	<i>Recit: Ethics and Biotechnology II</i>		
	The cell cycle	12	
Oct. 1	Meiosis	13	DNA extraction and Mitosis*
	Sexual life cycles	13	
	<i>Recit: Ethics and Biotechnology III</i>		
	Sexual life cycles	13	
Plant Form & Function			
Oct. 8	No class	---	No lab - Fall break
no class	Non-vascular plants	29	
M, T	<i>Recit: Quiz 3</i>		
	Seedless vascular plants	29	
Oct. 15	Seed plants	30	Field Botany* -Tree ID -Fall color
	Seed plants	30	
	<i>Recit: TBA</i>		
	Angiosperm reproduction & biotechnology	38	

Date:	Lecture & Recitation Topic	Text Chps.	Laboratory
Oct. 22	Plant anatomy / Review Exam 2 (Wednesday, Oct. 24) <i>Recit: Ethics and Biotechnology IV</i> Plant anatomy	35 35	Plant Diversity*
Oct. 29	Plant anatomy Plant responses to the environment <i>Recit: Quiz 4</i> Plant responses to the environment	36 39 39	Plant Anatomy*
Inheritance & Evolution			
Nov. 5	Mendelian genetics Mendelian genetics <i>Recit: Genetics practice set</i> Chromosomal inheritance	14 14 15	Lab Practical (only labs with *)
Nov. 12	Descent with modification Evolution of populations <i>Recit: Hardy-Weinberg practice set</i> Speciation / Review	22 23 24	Meiosis and Population genetics
Nov. 19 no class Th, F	Exam 3 (Monday, Nov. 19) Speciation <i>Recit: no class</i>	---	No Lab - Thanksgiving
Nov. 26	Phylogeny Prokaryotes and Protists <i>Recit: Quiz 5</i> Fungi and lichens	25 27,28 31	Green algae, fungi, and lichens
Dec. 3	Symbiotes Symbiotes <i>Recit: Review / Course evaluations</i> No class Friday December 7 – study day	31	No lab - Final week
Dec. 15	Final Exam - (Saturday, Dec. 15 @ 9:00 am)		