

SYLLABUS
INTRODUCTION TO MODERN BIOLOGY, BIOL 2311, Spring, 2006, JO3.516 (TR 11:00-12:15)
Textbook: *Biology*, 7th ed., by Raven et al.

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Biology is the science of life. It is the study of living things and vital processes. This course concentrates on the basic concepts of biology with an emphasis on the molecular and cellular basis of biological phenomena. Registration in BIOL 2311 requires registration in BIOL 2111.

Exams including an **optional** final exam will be given in BIOL 2311. Weekly quizzes will be given in the BIOL 2111 workshops (see [BIOL 2111 syllabus](#)). The final grade for both BIOL 2311 and BIOL 2111 will be based on the average of five of the six exams in BIOL 2311 (80%) and the average grade of ten BIOL 2111 workshop quizzes (20%). No make-up exam will be given for absence from a BIOL 2311 exam other than for official university business or illness (both require either a written university authorization or a physician's statement). Absolutely no make-up quizzes will be given in the BIOL 2111 workshops. All hand-held electronic devices, including cell phones, must be stored away during exams. Lecture notes will be posted on the course web site. Additional material will be presented in lectures and the workshops. It will be prudent to attend the lectures and workshops and read the assigned textbook chapters.

LECTURE SCHEDULE

LECTURE	DATE	TOPIC	CHAPTER
1	10 Jan	Cell Structure	5
2	12 Jan	Membranes	6
3	17 Jan	Cell-Cell Interactions	7
4	19 Jan	Cell Division - Part 1	11
5	24 Jan	Cell Division – Part 2	11
	26 Jan	EXAM 1	5-7, 11
6	31 Jan	Energy and Metabolism	8
7	2 Feb	Cellular Respiration – Part 1	9
8	7 Feb	Cellular Respiration – Part 2	9
9	9 Feb	Photosynthesis – Part 1	10
10	14 Feb	Photosynthesis – Part 2	10
	16 Feb	EXAM 2	8-10
11	21 Feb	Sexual Reproduction and Meiosis	12
12	23 Feb	Patterns of Inheritance	13
13	28 Feb	DNA – Part 1	14
14	2 Mar	DNA – Part 2	14
	14 Mar	EXAM 3	12-14
15	16 Mar	Genes and How They Work – Part 1	15
16	21 Mar	Genes and How They Work – Part 2	15
17	23 Mar	Genomes	17
18	28 Mar	Control of Gene Expression – Part 1	18
19	30 Mar	Control of Gene Expression – Part 2	18
	4 Apr	EXAM 4	15, 17 & 18
20	6 Apr	Development – Part 1	19
21	11 Apr	Development – Part 2	51
22	13 Apr	Cancer Biology	20
23	18 Apr	Gene Technology	16
	20 Apr	EXAM 5	16, 19, 20 & 51
	25 Apr	FINAL EXAM – 11:00 AM	