

**BIO 101-09 Winter 2005 Tentative Course Schedule, Instructor: Erica Smith**

Date	Activity and Topic	Reading	Assignment Due
1/4 T	Life and The Scientific Method	Ch. 1	
1/6 Th	Organization of the Cell Chemistry of Life <b>Lab 1: Bioinformatics</b>	Ch. 4 Ch. 2-3 <b>Hand-out</b>	<b>**Class Meets in IB 3409**</b>
1/11 T	Chemistry of Life cont'd <b>Lab 2: Microscopy and Cells</b>	Ch. 2-3 <b>Hand-out</b>	Take-home Assignment #1
1/13 Th	<b>Discussion: Stem Cells</b> Chemistry of Life	<b>Article</b> Ch. 2-3	<b>In-Class Reading Quiz</b> <b>Research Paper Topic</b>
1/18 T	Cellular Energy <b>Lab 3: Osmosis and Diffusion</b>	Ch. 5-7 <b>Hand-out</b>	Take-home Assignment #2
1/20 Th	No Class		
1/25 T	Cellular Energy <b>Discussion: Low-Carb Diets</b>	Ch. 5-7 <b>Article</b>	<b>Research Paper Outline and Refs</b> <b>In-Class Reading Quiz</b>
1/27 Th	Mitosis and Meiosis, Inheritance <b>Discussion: Cancer</b>	Ch. 8-9 <b>Article</b>	Take-home Assignment #3 <b>In-Class Reading Quiz</b>
2/1 T	Inheritance, Molecular Biology <b>Lab 4: Mitosis</b>	Ch. 9-10 <b>Hand-out</b>	Take-home Assignment #4
2/3 Th	Molecular Biology <b>Discussion: Cloning</b>	Ch. 10 <b>Article</b>	<i>Mid-term Evaluation</i> <b>In-Class Reading Quiz</b>
2/8 T	Gene Regulation <b>Lab 5: DNA Fingerprinting</b>	Ch. 11 <b>Hand-out</b>	Take-home Assignment #5 <b>Research Paper Submission to Loft</b>
2/10 Th	Biotechnology <b>Discussion: GMOs</b>	Ch. 12 <b>Article</b>	<b>In-Class Reading Quiz</b>
2/15 T	Evolution <b>Lab 6: DNA Fingerprinting</b>	Ch. 13	Take-home Assignment #6
2/17 Th	<b>Discussion: Antibiotic Resistance</b> Biological Diversity	<b>Article</b> Ch. 14-15	<b>In-Class Reading Quiz</b> <b>Research Paper Due for Peer Review</b>
2/22 T	Biological Diversity cont'd <b>Lab 7: Microinvertebrate Diversity</b>	Ch. 14-15 <b>Hand-out</b>	Take-home Assignment #7
2/24 Th	Astrobiology <b>Discussion: ET Life</b>	Guest <b>Article</b>	<b>Peer Reviews Due Back to Author</b> <b>In-Class Reading Quiz</b>
3/1 T	Plants and Fungi <b>Lab 8: TBD</b>	Ch. 16 <b>Hand-out</b>	Take-home Assignment #8
3/3 Th	Animals <b>Discussion: Animal Behavior</b>	Ch. 17 <b>Article</b>	<b>Research Paper Editor Review (Final)</b>
3/8 T	Ecology <b>Lab 9: Wetland Ecology</b>	Ch. 18 <b>Hand-out</b>	Take-home Assignment #9
3/10 Th	Ecosystems and Community <b>Discussion: Local Ecosystems</b>	Ch. 19 <b>Article</b>	<b>In-Class Reading Quiz</b>
3/15 T	Human Impact <b>Discussion: Global Warming</b>	Ch. 20 <b>Article</b>	Take-home Assignment #10 <b>In-Class Reading Quiz</b>
3/17 Th	Show and Tell (Field Trip Sharing)		<i>Course Evaluations</i>
3/22 T	No Final		

Key: Lecture topic and assignments (black), Laboratory (red), Discussion (blue), Research Paper (green)