

Nazarene University College

Course Outline - Fall 2003

BIOLOGY 205 The Organization and Diversity of Life

LECTURER : Lorraine Anderson, B.A., B.Sc., M.Sc., Ph.D.

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TEXTBOOK: Campbell, N.A., Reece, J.B., Mitchell, L.G. and Taylor, M.R. *Biology: Concepts and Connections*, 4th Edition. Benjamin/Cummings: San Francisco, 2000

OPTIONAL TEXT: Liebert, R.M. Student Study Guide for Biology: Concepts and Connections, 4th Edition. Benjamin/Cummings: San Francisco, 2000

GENERAL INFORMATION:

Students will be responsible for ALL material given in the lectures, whether or not it is present in the textbook.

EXAMINATION AND GRADING:

1. There will be 12 short quizzes given during the semester each worth 2 %. The top 10 quizzes will be used. **There will be NO make-up quizzes.**
2. There will be a midterm exam, valued at 30% of the final mark.
3. A 10% attendance/participation grade will be included.
4. A final **cumulative** exam will be given, valued at 40% of the final mark

MARK BREAKDOWN:

Lecture Quizzes = 20%
Lecture Midterm = 30%
Attendance and Participation 10%
Lecture Final = 40%

TENTATIVE LECTURE SCHEDULE:

<u>WEEK OF</u>	<u>TOPIC</u>	<u>TEXTBOOK CHAPTERS</u>
Sept 2	Introduction	1
Sept 8	Chemical Basis of Life, Molecules of Cells	2,3
Sept 15	Tour of the Cell, Working Cell	4,5
Sept 22	How Cells Harvest Energy, Photosynthesis	6,7
Sept 29	Photosynthesis, Cellular Basis of Reproduction	7,8
Oct 6	Cellular Basis of Reproduction, Patterns of Inheritance	8,9
Oct 13	MIDTERM, Patterns of Inheritance	9
Oct 20	Molecular Biology of the Gene and Control of Gene Expression	10,11
Oct 27	NO CLASSES	
Nov 3	DNA Technology and the Human Genome, How Populations Evolve	12,13
Nov 10	Tracing Evolutionary History , Human Evolution	15,19
Nov 17	Immunity and Population Dynamics	24,35
Nov 24	Behaviorial Adaptations	37
Dec 1	Review	
Dec 10	FINAL EXAM	