

Biology Syllabus

Textbook: Biology Concepts and Applications, 9th Edition

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Course Description:

This course is a laboratory course acceptable for college entry and provides a broad overview of biological systems from simple to complex life forms through inquiry-based laboratory investigations. This program promotes scientific thinking through problem solving, a process that encourages curiosity and careful inquiry. Includes multimedia support.

Attendance login requirements: Students must log into class at the scheduled class time and remain until class ends. Student must attend class 165 days per year.

Homework: Homework assignments will be given at the discretion of the instructor.

Class Participation: All class participation will be online. Instructor will give written feedback on progress and acceptable work directly to student online.

Course Grade Policy:

90-100 average = A

80-89 average = B

70-79 average = c

60-69 average =D

Below 60 = F

Tests/Exams: There will be a quiz after each unit of study. You will have two opportunities to pass the test with a grade of 60. Mid-Term and Final Exams will be counted twice in grade averaging.

Semester I

[Chapter 1 Invitation to Biology](#)

[Chapter 2 Life's Chemical Basis](#)

[Chapter 3 Molecules of Life](#)

[Chapter 4 Cell Structure](#)

[Chapter 5 Ground Rules of Metabolism](#)

[Chapter 6 Where It Starts Photosynthesis](#)

[Chapter 7 How Cells Release Chemical Energy](#)

[Chapter 8 DNA Structure and Function](#)

[Chapter 9 From DNA to Protein](#)

[Chapter 10 Control of Gene Expression](#)

[Chapter 11 How Cells Reproduce](#)

[Chapter 12 Meiosis and Sexual Reproduction](#)

[Chapter 13 Observing Patterns in Inherited Traits](#)

[Chapter 14 Human Inheritance](#)

[Chapter 15 Biotechnology](#)

[Chapter 16 Evidence of Evolution](#)

[Chapter 17 Processes of Evolution](#)

[Chapter 18 Life's Origin and Early Evolution.](#)

[Chapter 19 Viruses, Bacteria, and Archaea](#)

[Chapter 20 Protists](#)

[Chapter 21 Plant Evolution](#)

[Chapter 22 Fungi](#)

Mid-Term Exam

Semester II

[Chapter 23 Major Invertebrate Groups](#)

[Chapter 24 Animals II The Chordates](#)

[Chapter 25 Plant Tissues](#)

[Chapter 26 Plant Nutrition and Transport](#)

[Chapter 27 Plant Reproduction and Development](#)

[Chapter 28 Animal Tissue and Organ Systems](#)

[Chapter 29 Neural Control](#)

[Chapter 30 Sensory Perception](#)

[Chapter 31 Endocrine Control](#)

[Chapter 32 Structural Support and Movement](#)

[Chapter 33 Circulation](#)

[Chapter 34 Immunity](#)

[Chapter 36 Digestion and Human Nutrition](#)

[Chapter 37 Maintaining the Internal Environment](#)

[Chapter 38 Reproduction and Development](#)

[Chapter 39 Animal Behavior](#)

[Chapter 40 Population Ecology](#)

[Chapter 41 Community Ecology](#)

[Chapter 42 Ecosystems](#)

[Chapter 43 The Biosphere](#)

[Chapter 44 Human Effects on the Biosphere](#)

[**Final Exam**](#)