



BIOLOGICAL SCIENCES 101S

General Biology at Surrey

Spring 2011 (1111)

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COURSE PREREQUISITES

high school biology 12 (or equivalent) with a grade of C or better, or BISC 100. BISC 101 and 102 may be taken in any order, and are available for B-Sci credit, but are primarily designed to deliver prerequisite information to BISC majors and related departments and Faculties. Non-science students are encouraged to earn their B-Sci units in other BISC breadth courses (e.g. BISC 110, 111 and 112). Breadth-Science.¹

COURSE DESCRIPTION & CONTENT

Cell biology

cellular chemistry: structure and properties of biological molecules
cell structure: membrane and organelle form and function
cellular reproduction : mitosis, cytokinesis and the cell cycle
DNA, RNA and gene expression
cell energy: principles of energetics
enzymes
cellular respiration

Plant biology

photosynthesis
flowering plants: morphology, anatomy & growth
plant transport processes
plant nutrition
plant reproduction
control systems: plant hormones

Animal biology

structure and function of tissue types
digestion
circulatory and respiratory systems
excretion and homeostasis; hormones
nervous and motor mechanisms

TEXTBOOK(S)

- Campbell, N.A., and Reece, J.B. 2009. Biology 8th Ed. Benjamin Cummings Publishing Co.
- BISC 101 Readings Package

MARK DISTRIBUTION

Midterm - 15%, Lab Midterm - 20%, Lab Final - 20%, Final Exam - 30%, Focus on Learning Activities – 10%, Research Papers analysis – 5%

Note: There is a 5% penalty for non-attendance in tutorials.

¹Prerequisite Minimum Grade Requirement: Unless stated, a grade of C- or better is required on all Prerequisite BISC & MBB courses.