Students requiring accommodations as a result of a disability must contact the Centre for Students with Disabilities (778-782-3112 or csdo@sfu.ca).

BIOLOGICAL SCIENCES 101

General Biology

Summer 2008 (1084)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Office</th>
<th>E-mail</th>
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<tbody>
<tr>
<td>Dr. Cyril Thong</td>
<td>B 9235</td>
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</tbody>
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Course Prerequisites: High School BIOL 12 or equivalent with a grade of C or better, or BISC 100. *This course may be applied towards the Certificate of Liberal Arts.

Lectures: Tuesdays and Thursdays, 0930 - 1020

Laboratory: Open lab (mandatory), up to 3 hours/week (B8210)

Outline of Topics:

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 and growth
- plant nutrition
- transport processes
- plant reproduction
- control systems: plant hormones

Animal biology
- structure and function of tissue types
- integumentary, skeletal and digestive systems
- circulatory and respiratory systems
- excretion and homeostasis; hormones
- nervous and motor mechanisms


Mark Distribution: Midterm - 20%, Lab Midterm - 20%, Lab Final - 20%, Final - 40%

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