

Cellular Biology and Biochemistry

Molec Biol and Biochem 221

Section: D100

Term: 2008 Summer

Instructor: Dr. I. Northwood

Office: SSB 8142

Discussion Topics: General Course Description: (from calendar):

A study of the molecular processes which underlie cell structure and function, integrating ultrastructural, physiological and biochemical approaches. Modern techniques used in the analysis of organelle and cell function are integral parts of the course.

3 lecture hours/week; 1 tutorial hour/week; 0 lab hours

Lecture topics:

1. Introduction to the cell
2. Chemical composition of the cell
3. Introduction to proteins
4. Membrane structure and transport
5. Intracellular compartments and protein sorting
6. Intracellular vesicular traffic
7. The cytoskeleton
8. General principles of cell signalling
9. Energy conversion and carbon flow

Grading:

Exam I20%

Cellular Biology and Biochemistry

Exam II 30%

Final Exam 40%

Tutorial 10%

Required Texts: Lodish et al., Molecular Cell Biology, 6th Ed., 2008. W.H. Freeman and Co.

Recommended Texts:

Materials/Supplies: None

Prerequisite/Corequisite: Prerequisite: BISC 101.

Corequisite: CHEM 281 (or 150).

Recommended: CHEM 281 precede MBB 221.

Notes: - Students may not receive credit for both MBB 221 and BICH 221.
Students requiring accommodations as a result of a disability, must contact the Centre for Students with Disabilities (778-782-3112 or e-mail: csdo@sfu.ca).

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