

Cellular Biology and Biochemistry

Molec Biol and Biochem 221

Section: D100

Term: 2003 Spring

Instructor: Dr. N. Hawkins

Office: SSB 7114

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:

Midterm I

25%

Cellular Biology and Biochemistry

Midterm II 30%

Final Exam 45%

Required Texts: Alberts, et al., Molecular Biology of the Cell, 4th Edition, 2002. Garland Publishing Co. ISBN 0-8153-3218-1.

Recommended Texts:

Materials/Supplies: None

Prerequisite/Corequisite: Prerequisite: BISC 101.

Corequisite: CHEM 281 (or 150).

Recommended: CHEM 281 precede MBB 221.

Notes: - A non-refundable fee of \$6.00 will be assessed for materials.

- Students may not receive credit for both MBB 221 and BICH 221.

This outline is derived from a course outline repository database that was maintained by SFU Student Services and the University's IT Services Department. The database was retired in 2014 and the data migrated to SFU Archives in 2015.