BIOLOGICAL SCIENCES 101
GENERAL BIOLOGY
SUMMER 2014 (1144)

INSTRUCTOR	OFFICE	PHONE	EMAIL
Dr. Onkar S. Bains	N/A	N/A	onkarb@sfu.ca

COURSE PREREQUISITES - High school biology 12 (or equivalent) with a C grade or better, or BISC 100 with C- or better, or HSCI 100 with C+ or better. Breadth-Science.¹

Lectures: Tuesdays 10:30-11:20 (AQ3182) and Thursdays, 09:30–11:20 (EDB 7618)
Laboratory: Labs are mandatory and are scheduled (i.e. it is not a drop-in open lab). Please attend lab every week at your scheduled time and location (B8210/B8206).

COURSE OUTLINE

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
• DNA technology
• Metabolism and enzymes
• Cellular respiration

Animal biology
• Form and function; different tissue types
• Nutrition and digestion
• Circulatory and respiratory systems; immune function
• Excretion and homeostasis; hormones
• Nervous, muscle and sensory systems
• Reproduction

Plant biology
• Plant cells and photosynthesis
• Growth and development
• Plant nutrition and transport processes
• Angiosperm reproduction
• Plant hormones and interactions with environment


MARK DISTRIBUTION - Lecture Midterm - 20 %Lecture Final Exam - 40% . Lab and tutorial prep. – 15%. Lab final exam – 25%.

Note: There is a 5% penalty for non-attendance in tutorials.
**You must pass the laboratory part of the course to pass BISC 101

ADDITIONAL COURSE FEE - $23.00

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