

**ST. JOSEPH CATHOLIC SECONDARY SCHOOL
COURSE OUTLINE**



Name of Course/Course Code: Grade 12 University Biology, SBI 4U

Course Prerequisite: SBI 3U, SCH 3U strongly recommended

Course Description:

This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields.

Catholic Graduate Expectations:

This course profile integrates relevant Catholic beliefs, values and Church teachings within the overall context of the knowledge and skills being addressed. While each unit has an integrity and autonomy of its own, there are also identifiable themes that bridge each of the units and connect them in a holistic way. The homeostasis unit raises issues about the value of human life, the sacredness of the body and the conjugal act, and the accessibility and marketing of health care. The molecular genetics unit also raises the question of stewardship of the environment. The population dynamics unit includes values related to the common good. In addition to addressing specific issues raised in the course, this course further contributes to the development of the Ontario Catholic Graduate by developing his/her skills of discernment, reflection, communication, analysis, collaboration and self-direction.

Units of Study

Unit 1	Biochemistry
Unit 2	Metabolic Processes
Unit 3	Molecular Genetics
Unit 4	Homeostasis
Unit 5	Population Dynamics

**ST. JOSEPH CATHOLIC SECONDARY SCHOOL
COURSE OUTLINE**



Evaluation

70%	30%
Knowledge/Understanding	Culminating Task and Exam
Thinking/Inquiry	
Communication	
Application	

Course Resources Required:

Biology 12, University Preparation, Nelson

For a detailed course description of this course, please visit
<https://www.edu.gov.on.ca/eng/curriculum/secondary/subjects.htm>