

Interdisciplinary Science (ISCI)

Interdisciplinary Science (ISCI) Courses

ISCI 1001 [0.5 credit]

Introduction to the Environment

The nature of the biosphere: scientific bases of important environmental issues; evolution of life; properties and dynamics of populations and ecosystems; biodiversity; introduction to identification skills; sustainability of renewable resources, including food. Not acceptable for credit in a Bachelor of Science program.

Precludes additional credit for ISCI 1000.

Prerequisite(s): a knowledge of Grade 10 advanced level Mathematics will be assumed.

Lectures/demonstrations three hours a week and project assignments.

ISCI 2000 [0.5 credit]

Natural Laws

Fundamental concepts and their environmental application for the non-science student: properties of atoms and molecules, chemical reactions, nuclear processes, mechanics, thermodynamics, electricity and magnetism; applications to energy production and consumption.

Precludes additional credit for ISCI 1002 (no longer offered). Not acceptable for credit in a Bachelor of Science program.

Prerequisite(s): ISCI 1001 or GEOG 1010 or permission of the Institute.

Lecture/demonstrations three hours a week, a one-hour tutorial a week, and project assignments.

ISCI 2002 [0.5 credit]

Human Impacts on the Environment

Air and water pollution; global climatic change; waste management; industrial chemicals; sources and uses of energy; nuclear energy and radiation; risk assessment of technological hazards. Acceptable only as a free elective in a Bachelor of Science program.

Prerequisite(s): ISCI 2000 or ISCI 1002 or two experimental science grade 12 U/M courses or one first year university experimental science credit.

Lectures/demonstrations three hours a week and project assignments.