

# SCIENCE INTERDISCIPLINARY (SCI)

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## SCI 1000 Topics in Science 1 3 cr

Topics of current interest in the Faculty of Science. Offerings will be based on the interests and requirements of students and faculty and will include interdisciplinary topics not available in regular course offerings. This course may be used to satisfy a Science elective. This course is a Topics course and may be completed multiple times under different titles. **PR/CR: A minimum grade of C is required unless otherwise indicated.** Prerequisite: consent of the instructor.

**Attributes:** Science

## SCI 1002 Topics in Science 1 with Laboratories 3 cr

(Lab required) Topics of current interest in the Faculty of Science. Offerings will be based on the interests and requirements of students and faculty, and will include interdisciplinary topics not available in regular course offerings. This course may be used to satisfy a Science elective. This course is a Topics course and may be completed multiple times under different titles.

**PR/CR: A minimum grade of C is required unless otherwise indicated.** Prerequisite: consent of the instructor.

**Attributes:** Science

## SCI 2000 Topics in Science 2 3 cr

Topics of current interest in the Faculty of Science. Offerings will be based on the interests and requirements of students and faculty and will include interdisciplinary topics not available in regular course offerings. This course may be used to satisfy a Science elective. This course is a Topics course and may be completed multiple times under different titles. **PR/CR: A minimum grade of C is required unless otherwise indicated.** Prerequisite: consent of the instructor.

**Attributes:** Science

## SCI 2002 Topics in Science 2 with Laboratories 3 cr

(Lab required) Topics of current interest in the Faculty of Science. Offerings will be based on the interests and requirements of students and faculty, and will include interdisciplinary topics not available in regular course offerings. This course may be used to satisfy a Science elective. This course is a Topics course and may be completed multiple times under different titles.

**PR/CR: A minimum grade of C is required unless otherwise indicated.** Prerequisite: consent of the instructor.

**Attributes:** Science

## SCI 2980 4-Month General Science Internship 0 cr

Supervised internship with an approved employer for a minimum of 12 weeks full-time. Restricted to students admitted to the General Science Internship Program Option in the Faculty of Science. Completion of internship pre-employment workshops required. Final internship report required. May not be held with SCI 2990. (Pass/Fail grade only.)

**PR/CR: A minimum grade of C is required unless otherwise indicated.** Prerequisite: Written permission from the General Science Internship Program Office.

**Mutually Exclusive:** SCI 2990

**Attributes:** Science

## SCI 2990 8-Month General Science Internship 0 cr

Supervised internship with an approved employer for a minimum of 24 weeks full-time. Restricted to students admitted to the General Science Internship Program Option in the Faculty of Science. Completion of internship pre-employment workshops required. Final internship report required. May not be held with SCI 2980. (Pass/Fail grade only.)

**PR/CR: A minimum grade of C is required unless otherwise indicated.** Prerequisite: Written permission from the General Science Internship Program Office.

**Mutually Exclusive:** SCI 2980

**Attributes:** Science

## SCI 3000 Topics in Science 3 3 cr

Topics of current interest in the Faculty of Science. Offerings will be based on the interests and requirements of students and faculty and will include interdisciplinary topics not available in regular course offerings. This course may be used to satisfy a Science elective. This course is a Topics course and may be completed multiple times under different titles. **PR/CR: A minimum grade of C is required unless otherwise indicated.** Prerequisite: consent of the instructor.

**Attributes:** Science

## SCI 3002 Topics in Science 3 with Laboratories 3 cr

(Lab required) Topics of current interest in the Faculty of Science. Offerings will be based on the interests and requirements of students and faculty, and will include interdisciplinary topics not available in regular course offerings. This course may be used to satisfy a Science elective. This course is a Topics course and may be completed multiple times under different titles.

**PR/CR: A minimum grade of C is required unless otherwise indicated.** Prerequisite: consent of the instructor.

**Attributes:** Science

## SCI 3300 Thinking Critically About Science 3 cr

Peer review is a cornerstone of scientific research and the advancement of human knowledge. This course will focus on how to discern quality research from junk science, both in what is read and what is written. Together, students will explore how to evaluate scientific works from across disciplines and use what they learn to propose interdisciplinary research. May not be held with ENVR 2810.

**PR/CR: A minimum grade of C is required unless otherwise indicated.** Prerequisites: [a minimum of 18 credit hours in any of ASTR, BIOL, CHEM, COMP, DATA, MATH, MBIO, PHYS, or STAT courses at the 2000 level or higher] and [a course that fulfills the Written English requirement] and [permission of the instructor].

**Mutually Exclusive:** ENVR 2810

**Attributes:** Science

## SCI 3980 Co-operative Education Work Term 1 0 cr

Supervised work experience with an approved employer for a minimum of 12 weeks full-time. Restricted to students admitted to the Honours or Major Co-operative Education Option in the Faculty of Science. Completion of co-op pre-employment workshops required. Final work term report required. (Pass/Fail grade only.)

**PR/CR: A minimum grade of C is required unless otherwise indicated.** Prerequisite: Written permission from the Faculty of Science Co-operative Education Office.

**Attributes:** Science

**SCI 3990 Co-operative Education Work Term 2 0 cr**

Supervised work experience with an approved employer for a minimum of 12 weeks full-time. Restricted to students admitted to the Honours or Major Co-operative Education Option in the Faculty of Science. Final work term report required. (Pass/Fail grade only).

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

Prerequisites: SCI 3980 (P) or equivalent and written permission from the Faculty of Science Co-operative Education Office.

**Attributes:** Science

**SCI 4000 Topics in Science 4 3 cr**

Topics of current interest in the Faculty of Science. Offerings will be based on the interests and requirements of students and faculty and will include interdisciplinary topics not available in regular course offerings.

This course may be used to satisfy a Science elective. This course is a Topics course and may be completed multiple times under different titles.

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

Prerequisite: consent of the instructor.

**Attributes:** Science

**SCI 4100 The Art of Scientific Visualization 3 cr**

This interdisciplinary course encourages students from disciplines across the University to use techniques from the visual arts to create high-impact visualizations of research data. Topics include data representations and visual analytics; human perception, composition, colour theory and practice; communicating with the public; and science's current impact in the art realm. A hands-on workshop format will be the main mode of learning how to incorporate perception-based design principles into static digital images and dynamic computer interactives. This course is intended for upper year undergraduates interested in scientific visualization. May not be held with SCI 4000 when the topic was The Art of Scientific Visualization.

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

Prerequisite: Completion of 90 credit hours of university-level coursework or permission from the instructor.

**Attributes:** Science

**SCI 4980 Co-operative Education Work Term 3 0 cr**

Supervised work experience with an approved employer for a minimum of 12 weeks full-time. Restricted to students admitted to the Honours or Major Co-operative Education Option in the Faculty of Science. Final work term report required. (Pass/Fail grade only).

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

Prerequisites: SCI 3990 (P) or equivalent and written permission from the Faculty of Science Co-operative Education Office.

**Attributes:** Science

**SCI 4990 Co-operative Education Work Term 4 0 cr**

Supervised work experience with an approved employer for a minimum of 12 weeks full-time. Restricted to students admitted to the Honours or Major Co-operative Education Option in the Faculty of Science. Final work term report required. (Pass/Fail grade only.)

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

Prerequisites: SCI 4980 (P) or equivalent and written permission from the Faculty of Science Co-operative Education Office.

**Attributes:** Science