

■ Environmental Chemistry

Program Coordinators

Chair of the Department of Chemistry

A. J. Vreugdenhil, BSc (Queen's), PhD (McGill)

Director of the Trent School of the Environment

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Professors

See faculty listings in Chemistry and Environment

Solving many environmental problems requires a solid background in both chemistry and environmental science. The Environmental Chemistry program has been designed to provide a thorough grounding in fundamental chemical principles as well as a detailed understanding of environmental issues and their scientific context. Graduates of the program will have experience with advanced instrumentation and modern analytical techniques, and will be prepared to handle challenging environmental problems from a multidisciplinary perspective.

Bachelor of Science Program in Environmental Chemistry

- In addition to the program requirements listed below, students must satisfy the University degree requirements (see [p. 15](#)).
- The Environmental Chemistry program is a sequence of courses that compose an integrated whole and are offered by the Chemistry Department and the School of the Environment. For information on individual courses see Calendar entries for Chemistry and for Environmental & Resource Science/Studies.
- ERSC 3551H and 4350H are recommended for both the Honours and the General program; CHEM-ERSC 3610H is highly recommended.

The single-major Honours program. 20.0 credits which include the following 15.5 credits:

- 6.0 CHEM credits consisting of CHEM 1000H, 1010H, 2100H, 2200H, 2300H, 2400H, 2500H, 2610H and 2620H (or 2600Y), 3400H, 3410H, and 3520H (2510H)
- 3.5 ERSC credits consisting of ERSC 1010H and 1020H (or 1000Y), 2240H, 3450H, 3701H and 3702H (or 3700Y), and 4070H
- 0.5 CHEM or ERSC credit from CHEM 3600H or ERSC 4060H
- 1.0 CHEM credit from CHEM 4300H, 4400H, 4410H, 4500H, or 4520H
- 2.0 CHEM or ERSC credits at the 3000 level or beyond in addition to the above
- 1.0 BIOL credit consisting of BIOL 1020H and 1030H
- 1.0 MATH credit consisting of MATH 1005H and 1051H
- 0.5 MATH or PHYS credit from MATH 1052H or PHYS 1001H or PHYS 1060H

The single-major General program. 15.0 credits which include the following 12.0 credits:

- 3.5 CHEM credits consisting of CHEM 1000H, 1010H, 2400H, 2500H, 2610H and 2620H (or 2600Y), and 3520H (2510H)
- 3.0 ERSC credits consisting of ERSC 1010H and 1020H (or 1000Y), 2240H, 3450H, 3701H and 3702H (or 3700Y)
- 1.0 CHEM credit from CHEM 2100H and 2110H for organic chemistry; or from CHEM 2200H and 3200H for inorganic chemistry
- 0.5 CHEM credit from CHEM 3400H or 3410H
- 1.5 ERSC credits in addition to the above
- 1.0 BIOL credit consisting of BIOL 1020H and 1030H
- 1.0 MATH credit consisting of MATH 1005H and 1051H
- 0.5 MATH or PHYS credit from MATH 1052H or PHYS 1001H or PHYS 1060H