

Water Sciences

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Program Coordinator

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Professors

See faculty listings in Biology, Chemistry, and Environment

Freshwater systems provide many essential ecosystem services, such as clean water, food, energy, recreation, climate regulation, and waste assimilation. As human populations and economies grow, demand for these ecosystem services will continue to increase. The Water Sciences program provides students with the knowledge and skills they will need to respond to contemporary water challenges, in Canada and internationally. A cooperative undertaking of the School of the Environment and the Departments of Biology and Chemistry, the program draws from courses which together provide students with the technical and theoretical foundation for study of the science of water and the aquatic environment.

Notes

- For information on individual courses see Calendar entries for Biology, Chemistry, Environmental & Resource Science/Studies, and Geography.
- There is no joint-major program, General program, or minor in Water Sciences.

Bachelor of Science Program in Water Sciences

- In addition to the program requirements listed below, students must satisfy the University degree requirements (see p. 14).

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

- 0.5 WASC credit consisting of WASC 2000H
- 2.5 BIOL credits consisting of BIOL 1020H, 1030H, 2260H, 3050H, and 4330H
- 1.5 CHEM credits consisting of CHEM 1000H, 1010H, and 2620H
- 3.0 ERSC credits consisting of ERSC 1010H, 1020H, 2240H, 3510H, 3701H, and 4060H
- 3.0 GEOG credits consisting of GEOG 1040H, 2080H, 2090H, 2460H, 2530H, and 3530H
- 1.0 MATH credit consisting of MATH 1051H and 1052H
- 1.0 credit from BIOL 2000H, BIOL 2070H, CHEM 2400H, CHEM 2500H, ERSC 2230H, or GEOG 2540H
- 2.0 credits from:

BIOL 3051H	CHEM 4011H	GEOG 3410H
BIOL 3140H	CHEM 4012H	GEOG 3420H
BIOL 3190H	CHEM 4520H	GEOG 3540H
BIOL 3250H	ERST 3000H	GEOG 3560H
BIOL 3340H	ERSC 3702H	GEOG 3860H
BIOL-ERSC 3380H	ERSC-BIOL-GEOG 4070H	GEOG 4080H
BIOL 4150H	ERSC-BIOL 4240H	
CHEM-ERSC 3600H	ERSC 4520H	
CHEM-ERSC 3610H	ERSC 4530H	

– At least 1.0 credit from:

BIOL 3850H	CHEM 4010Y/4020D	ERSC 4010Y/4020D
BIOL 3851H	ERSC 3160H	ERSC-GEOG 4640H
BIOL 3852H	ERSC 3220H	ERSC-GEOG-WASC 4703H
BIOL 3853H	ERSC-IDST 3230H	ERSC 4830Y
BIOL 4010Y/4020D	ERSC 3905Y/3906H	GEOG 4010Y/4020D
BIOL-ERSC 4030H	ERSC 4905Y/4906H	GEOG 4830Y (4030Y)

Please consult the academic timetable for information on courses that will be offered in 2019–2020, including when they will be scheduled.

» **WASC 2000H: Water Policy (Sc)**

An introductory overview of water issues and related policies in Canada and internationally. Surveys the key interest groups and factors that shape conflicts over water protection and allocation, as well as policy responses, including infrastructure, regulatory, and economic tools that are employed by national, provincial, and local agencies. Prerequisite: ERSC 1010H and 1020H (or 1000Y).

» **WASC-ERSC-GEOG 4703H: Senior Seminar in Earth and Environmental Science (Sc) (see Environmental & Resource Science/Studies)**