

**Chemical Engineering and Applied Chemistry
MAsc, MEng, PhD****School of the Environment: Collaborative Specialization in Environmental Studies (CSES)**

Below you will find the requirements for students in the Chemical Engineering and Applied Chemistry MAsc, MEng and PhD who are completing a collaborative specialization in Environmental Studies. Although this document will provide you with guidance for completing the specialization, note that the [School of Graduate Studies Calendar](#) is the authoritative source for all degree requirements.

Master of Applied Science (MAsc)

MAsc students complete a minimum of 1.5 FCEs. Those enrolled in the Collaborative Specialization in Environmental Studies complete the following requirements:

- ENV 1001H: Environmental Decision Making (0.5 FCE)
- One elective (0.5 FCE) from the [CSES course list](#).

In addition to the coursework, the MA thesis should be written on an environment related topic. A digital copy of the [final thesis](#) must be submitted to the School of the Environment prior to convocation.

It is recommended that each thesis committee will require a supervisor from the student's home department and at least one other member from another graduate unit, both of whom are also members of graduate faculty in the School of the Environment.

Master of Engineering (MEng)

MEng students either complete a total of 5.0 FCEs or 3.5 FCE plus a 1.5 FCE supervised research project. Those enrolled in the Collaborative Specialization in Environmental Studies complete the following requirements:

- ENV 1001H: Environmental Decision Making (0.5 FCE)
- One elective (0.5 FCE) from the [CSES course list](#).
- [ENV4444H: Internship](#) (0.5 FCE). Approval from the School of the Environment is required prior to participating in the internship.
- [ENV5555Y: Research Paper](#). Students who complete the MEng research project may count this towards their CSES, provided the project includes an environmental component. A copy of the [final research paper](#) must be submitted to the School of the Environment prior to convocation.

Doctor of Philosophy (PhD)

PhD students complete a total of 2.0 FCEs. Those enrolled in the Collaborative Specialization in Environmental Studies complete the following requirements:

- ENV 1001H: Environmental Decision Making (0.5 FCE)

- One elective (0.5 FCE) from the [CSES course list](#).

In addition, students complete a thesis on an environmental topic. It is recommended that the thesis committee membership will include a supervisor (from the student's home department who is a member of the CSES core faculty) and at least one other member from a collaborating department. A digital copy of the [final thesis](#) must be submitted to the School of the Environment prior to convocation.

All PhD students are required to give an oral presentation of their doctoral research as part of the School's Environment Seminar Series or Research Day, which is held once per year. For the latter, the oral presentation may or may not be done in conjunction with a summary poster, depending on the decided format of the School's Research Day in any given year.