



(GWC)² Chemistry - Toxicology M.Sc./Ph.D. Collaborative Program

Toxicology MSc/PhD Collaborative Program

The interdepartmental collaborative program at the University of Guelph is the focal point for graduate teaching and research in toxicology. Professor Herman Boermans is Director of the Toxicology Program which has 26 members in 12 departments at the University of Guelph. The Toxicology faculty have active research and teaching expertise in many areas of toxicology and students benefiting from this diverse knowledge. Students wishing to undertake graduate studies at the M.Sc. or Ph.D. level with emphasis on toxicology will be admitted by a participating department and will register in both the participating department and in the collaborative program.

The Department of Chemistry at the University of Guelph participates in the Collaborative M.Sc./Ph.D. program in toxicology. Professor Manderville is a member of the Department of Chemistry and Toxicology Program whose research includes aspects of toxicology. Students choosing this option must meet the requirements of the toxicology program, as well as those of (GWC)² for their particular degree program. Three toxicology courses must be completed including Advanced Principles of Toxicology TOX*6000, Advanced Topics in Toxicology, TOX*6200, and a research project must be conducted with a participating faculty member at the University of Guelph. Below is a direct link to courses offered for the graduate program in toxicology:

<http://www.uoguelph.ca/graduatestudies/calendar/gradprog/tox-courses.shtml>

M.Sc. Program

Admission Requirements

M.Sc. students in the collaborative program in toxicology must meet the M.Sc. admission requirements of the participating department in which they are enrolled. The minimum academic requirement for admission to the (GWC)² M.Sc. program is an upper second-class (B+) honours bachelor's degree (or its equivalent) in Science from a recognized university. Strong emphasis is also placed on the letters of recommendation received in support of the student's application. Students from foreign countries where English is not the language of instruction are also required to prove their proficiency in English through a TOEFL exam and may be required to complete a GRE (Graduate Record Examination) in Advanced Chemistry to assist the Director in assessing their academic background.

Degree Requirements

M.Sc. students in the collaborative program in toxicology must meet all the academic requirements specified by the participating department in which they are enrolled. (GWC)² M.Sc. students must successfully complete at least four one-term graduate courses one of which is Chemistry 794(0) (M.Sc. Seminar) and one of which must be a Chemistry Graduate course, and submit and defend an acceptable thesis. They are required to include the following toxicology courses: **TOX*6000 – Advanced Principles of Toxicology, TOX*6200 - Advanced Topics in Toxicology**. TOX*6000 may be waived for students whose undergraduate degree included significant training in toxicology.

Ph.D. Program

Admission Requirements

Ph.D. students in the collaborative program in toxicology must meet the Ph.D. admission requirements of the participating department in which they are enrolled. The minimum academic requirements for the (GWC)² normally consists of a Master's degree in Science from a recognized university. Strong emphasis is also placed on the letters of recommendation received in support of the student's application. Students from foreign countries where English is not the language of instruction are also required to prove their proficiency in English through a TOEFL exam and may be required to complete a GRE (Graduate Record Examination) in Advanced Chemistry to assist the Director in assessing their academic background.

GUELPH-WATERLOO CENTRE FOR GRADUATE WORK IN CHEMISTRY AND BIOCHEMISTRY

(GWC)² Website: <http://www.gwc2.on.ca>

Degree Requirements

Ph.D. students in the collaborative program in toxicology must meet all the academic requirements specified by the participating department in which they are enrolled. Students in the (GWC)² Ph.D. program must successfully complete three additional one term courses beyond those required for the Master's degree, pass an oral comprehensive examination, present a 30-minute seminar, and submit and defend an acceptable thesis. Of the three required courses, students must complete a Graduate Chemistry course plus the courses TOX*6000 and TOX*6200 if they, or equivalent courses, were not taken as part of an M.Sc. program. If students have completed TOX*6000 and TOX*6200 or their equivalent, of the three required courses they must take two Graduate Chemistry courses plus one other Graduate Chemistry or other Department course.

Required Toxicology Course Descriptions

TOX*6000 Toxicology: An intensive course in the principles of modern aspects of toxicology, taught in a lecture/case study format; and

TOX*6200 Advanced Topics in Toxicology: Advanced topics in toxicology will include oral presentations by students, faculty members, and guest lecturers. The emphasis will be on advanced concepts and techniques in toxicology research with particular relevance to mechanistic, molecular and interpretive toxicology.

Contacts for the Toxicology Program

Director of Toxicology Program

Herman J. Boermans: 2602 OVC, 519-824-4120 Ext. 54984, email hboerman@uoguelph.ca

Secretary of Toxicology Program

Wendy Arthur: 2633 OVC, 519-824-4120 Ext 54900, email warthur@ovc.uoguelph.ca

Toxicology Interdepartmental Group – Chemistry Member

Nigel J. Bunce: 126 MACN, Ext. 53962, email nbunce@uoguelph.ca

Wojciech Gabryelski: 1248 SCIE, Ext. 53850 email wgabryel@uoguelph.ca

Richard Manderville: 3243/3241 SCIE, Ext. 53963 email manderv@uoguelph.ca

Mario Monteiro: 333 MACN, Ext. 53447 email monteiro@uoguelph.ca

(GWC)²

Email: gwc@uoguelph.ca Website: <http://www.gwc2.on.ca>

Application Information

Application is made through the on-line Ontario University Application Centre (OUAC) through the University of Guelph:

http://horizon.ouac.on.ca/webapp/account.d2w/report?ident=ACCOUNT_DSP&merchant_rn=810327&action_id=choose

The completed application package is to be forwarded to the GWC²:

The Director

Guelph-Waterloo Centre for
Graduate Work in Chemistry and Biochemistry
Department of Chemistry
University of Guelph
Guelph, ON N1G 2W1
CANADA