PhD in Chemistry

FACULTY OF ARTS AND SCIENCES | DEPARTMENT OF CHEMISTRY

Overview and specifics

NUMBER	3-060-1-0
LEVEL	Graduate
TYPE	Philosophiae Doctor (Ph. D.)
CREDITS	90 credits
PROGRAM TYPE	Dissertation or thesis track

Admission in fall, winter and summer

Day course

Offered at the Montréal

Offered at the Virtual

Full-time

Part-time

With international exchange option

Description

The Department of Chemistry will be moving to the new Science Complex in the fall of 2019. Discover your new surroundings in photos and video.

MORE INFORMATION

This program provides students with a strong research training in a field of chemistry so that they can build upon their foundational knowledge and laboratory working skills and start working as research chemists as soon as they enter the job market. The wide range of career paths in this field requires students to have both solid foundational training and great flexibility. Students personalize their program based on their aspirations and chosen career.

Objectives

The goal of this doctorate program is to train high-level scientific researchers. Students must carry out a project in a very specific area of chemistry and will develop their existing research skills. Students must also use their existing knowledge, gain new knowledge, and reflect a great deal on their chosen topic. Through their project, students will be able develop their creativity and show their originality.

Career prospects

The deparment offers solid research training in key sectors below, which hold a lot of job opportunities for chemists:

- Environment
- Pharmaceutical chemistry

- Biotechnology
- Nanoscience and nanotechnology
- Materials chemistry
- Computational chemistry

Chemists also work in highly varied fields in a number of industries:

- Agri-food
- Cosmetics
- Petrochemicals
- Pharmaceuticals
- Metallurgy
- Environment
- Plastics and rubber
- Pulp and paper

Regulations

Studies in this program are governed by the educational regulations of the Faculty of Graduate and Postdoctoral Studies, and the following provisions:

1. Admission requirements
To be admitted as a regular student in the PhD (Chemistry) program, candidates must:

- Meet the general admission requirements (section XX) of the "Règlement pédagogique de la Faculté des études supérieures et postdoctorales" (educational regulations of the Faculty of Graduate and Postdoctoral Studies).
- Have an MSc in Chemistry (Thesis) from Université de Montréal or show proof of equivalent education
- Have obtained a grade-point average at the graduate level of at least 3.3 out of 4.3 or the equivalent.
- Have sufficient knowledge of English

Application deadlines

Before submitting an application, check the application periods for the chosen session.

Fall
- **Fall 2021:** From January 1st, 2020 to February 1st, 2021

Winter
- **Winter 2021:** From May 1st, 2019 to November 1st, 2020

Summer
- **Summer 2021:** From September 1st, 2019 to February 1st, 2021

Programs of origin

Several Université de Montréal students in this program came from the following programs:

PROGRAMS	TYPE	CREDITS	NUMBER	PERIOD	ENROLLMENT CAPACITY
Chemistry	Master's Degree	45 credits	2-060-1-0	Jour	

Program structure (3-060-1-0)

The doctorate program consists of 90 credits.

Legend: CR: Credit, SC: Schedule, D: Day, E: Evening

SEGMENT 70

Number of credits: 87 mandatory credits, of which 84 are for research, a thesis, and a seminar. The 3 remaining credits are for one optional course.

Block 70A Mandatory - 3 credits

COURSE	TITLE	CRSC
CHM 6601	Section Seminars	3

Block 70B Optional - 3 credits

Chosen from the graduate courses offered by the department.

Block 70C Mandatory - 84 credits

COURSE	TITLE	CRSC	COURSE	TITLE	CRSC
CHM 7000	PhD Comprehensive Examination	0	CHM 7040	Research	10
CHM 7010	Research	10	CHM 7050	Research	10
CHM 7030	Research	10	CHM 7060	Research	10

Programs to explore

Applicants interested in this program also applied to the following programs:

PROGRAMS	TYPE	CREDITS	NUMBER	PERIOD
Biochemistry	Doctorate	90 credits	3-465-1-0	Jour
Biomedical Sciences	Doctorate	90 credits	3-484-1-0	Jour
Chemistry	Master's Degree	45 credits	2-060-1-0	Jour
Drug Development	Specialized Graduate Diploma	30 credits	2-670-1-0	Jour
Pharmaceutical Sciences	Doctorate	90 credits	3-700-1-0	Jour

Research expertise at a glance

Consult our list of research centers and chairs : https://chimie.umontreal.ca/english/research/research-interests/

Find out more : https://chimie.umontreal.ca/english/home/

Professors

Consult the list of the department's faculty members and their specializations : https://chimie.umontreal.ca/english/department-directory/professors/

Directory of theses and dissertations

Visit Papyrus, Université de Montréal's institutional repository, to search for research projects by our faculty and researchers as well as theses and dissertations by our students : https://papyrus.bib.umontreal.ca/xmlui/?locale-attribute=en

Research news

Read the latest research news from UdeM : http://nouvelles.umontreal.ca/en/