Experiential Learning Guide

Physical Sciences

Experiential Learning (EL) at the University of Guelph means learning through action. Whether inside or outside of the classroom, EL activities provide you with the opportunity to apply your course material to real-world, meaningful contexts. Through EL, you can take control of your learning by acquiring new knowledge and concrete experiences that prepare you for the future.

Note: Consult the course section of the current academic calendar for detailed course descriptions, prerequisites, and restrictions. Courses listed may not always be offered and are subject to change. Consult with offering departments for current availability.

Applied Research

An applied research course allows you to conduct research under faculty guidance in an academic, industry, or community setting.

- CHEM*4900 - Chemistry and Biochemistry Research Project
- CHEM*4910 - Chemistry Research Project II
- MATH*4600 - Advanced Research Project in Mathematics
- STAT*4600 - Advanced Research Project in Statistics

Course-Integrated

A course has integrated experiential learning when it intentionally includes activities such as structured projects, laboratory work, design, simulations, performances, case studies, or entrepreneurship.

- CHEM*1040 - General Chemistry I
- CHEM*1050 - General Chemistry II
- CHEM*2400 - Analytical Chemistry I
- CHEM*2480 - Analytical Chemistry II
- CHEM*2700 - Organic Chemistry I
- CHEM*2820 - Thermodynamics and Kinetics
- CHEM*3430 - Analytical Chemistry
- CHEM*3440 - Analytical Chemistry
- CHEM*3640 - Chemistry of the Elements I
- CHEM*3650 - Chemistry of the Elements II
- CHEM*3750 - Organic Chemistry II
- CHEM*3760 - Organic Chemistry III
- CHEM*3870 - Molecular Spectroscopy
- MATH*4440 - Case Studies in Mathematics and Statistics

Last updated on February 5, 2020

University of Guelph
Experiential Learning Hub

Information and Support:
www.uoguelph.ca/el
experience@uoguelph.ca

Experiential Learning Guide

Physical Sciences

Co-operative Education Programs

Programs with a co-op option integrate academics with three to five full-time paid workplace learning semesters relevant to the field of study.

- Biological & Medical Physics
- Biological & Pharmaceutical Chemistry
- Chemical Physics
- Chemistry
- Environmental Geomatics
- Nanoscience
- Physics