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.

- ANSC*4350 – Experiments in Animal Biology
- ANSC*4610 - Critical Analysis in Animal Science
- ANSC*4700 - Research in Animal Biology I
- ANSC*4710 - Research in Animal Biology II
- BIOM*4510 - Research in Biomedical Sciences
- BIOM*4521/2 - Research in Biomedical Sciences
- IBIO*3100 - Interpreting Biodiversity I
- IBIO*4100 - Interpreting Biodiversity II
- IBIO*4500 - Research in Integrative Biology I
- IBIO*4510 - Research in Integrative Biology II
- IBIO*4521/2 - Thesis in Integrative Biology
- IBIO*4600 - Integrative Marine and Freshwater Research
- MCB*4500 - Research Project in Molecular & Cellular Biology I
- MCB*4510 - Research Project in Molecular & Cellular Biology
- NEUR*4401/2 - Research in Neurosciences
- NEUR*4450 - Research in Neurosciences

Community Engaged Learning

A community engaged learning course connects your learning and skill development to theoretical concepts through activities that achieve mutually beneficial outcomes with a community organization.

- BIOL*3660 - Internship in Biological Science
- BIOL*4020 - Integrative Problems in Biological Science
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.

- BIOC*3570 - Analytical Biochemistry
- BIOL*3650 - Applications in Biology
- BIOL*4350 - Limnology of Natural and Polluted Waters
- BIOL*3010 - Laboratory and Field Work in Ecology
- BIOL*3040 - Methods in Evolutionary Biology
- BIOL*4110 - Ecological Methods
- BIOL*4500 - Natural Resource Policy Analysis
- BOT*3050 - Plant Functional Ecology
- BOT*3710 - Plant Diversity and Evolution
- ENVM*3500 - Environmental Management Integrated Project
- MBG*3350 - Laboratory Methods in Molecular Biology I
- MCB*4600 - Topics in MCB
- MICR*3430 - Advanced Methods in Microbiology
- NEUR*3500 - Techniques in Neuroscience
- NEUR*4000 - Current Issues in Neuroscience
- ZOO*3610 - Lab Studies in Animal Physiology I
- ZOO*3630 - Lab Studies in Animal Physiology II
- ZOO*4920 - Lab Studies in Ornithology
- ZOO*4940 - Lab Studies in Herpetology
- ZOO*4950 - Lab Studies in Mammalogy

Field Courses

Field courses prepare you for professional work through first-hand investigation and analysis in a field location, led by faculty, for part of or the full duration of a semester.

- BIOL*4700 - Field Biology
- BIOL*4710 - Field Biology
- BIOL*4800 - Field Biology
- BIOL*4810 - Field Biology
- BIOL*4900 - Field Biology
- ZOO*4300 - Marine Biology and Oceanography
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
- Biomedical Toxicology
- Environmental Sciences
- Food Science
- Marine & Freshwater Biology
- Microbiology