Experiential learning at the University of Guelph means learning through action and reflection. Whether inside or outside the classroom, experiential learning activities provide you with the chance to gain knowledge and skills that will prepare you for your future.

Each course listed in this guide is structured with diverse experiences that will challenge you to learn through action. The **high intensity courses** listed include opportunities to work in a real or simulated workplace, and to complete a self-assessment to help you reflect on what you have learned, the skills you have developed, and your readiness for the world of work.

*Note: Consult the 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.*

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**Course-Integrated**

A course that has integrated experiential learning when it intentionally includes activities such as structured projects, laboratory work, design, simulations, performances, case studies, or entrepreneurship to enable you to display their academic learning and skill development.

Agriculture:
- AGR*2350 - Animal Production Systems, Health and Industry
- **AGR*4600** - Agriculture and Food Issues Problem Solving

Animal Science:
- ANSC*3120 - Introduction to Animal Nutrition
- ANSC*4010 - Animal Welfare Judging and Evaluation
- ANSC*4230 - Challenges and Opportunities in Dairy Cattle Production

Biochemistry:
- BIOC*3570 - Analytical Biochemistry

Biological Science:
- BIOL*3650 - Applications in Biology
- **BIOL*4020** – Integrative Problems in Biological Science (New in 2019/20)

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**More information and support**

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Or email: experience@uoguelph.ca
Integrative Biology:
- BIOL*3010 - Laboratory and Field Work in Ecology
- BIOL*3040 - Methods in Evolutionary Biology
- BIOL*4110 - Ecological Methods
- BIOL*4500 - Natural Resource Policy Analysis

Botany:
- BOT*3050 - Plant Functional Ecology
- BOT*3710 - Plant Diversity and Evolution

Business:
- BUS*4550 - Applied Business Project I
- BUS*4560 - Applied Business Project II

Chemistry:
- 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

Computer Science:
- CIS*3050 - Systems Programming (New in 2019/20)
- CIS*3750 - System Analysis and Design in App
- CIS*3760 - Software Engineering
- CIS*4020 - Data Science (New in 2019/20)
Economics:

- ECON*3360 - The Strategy of M & A
- ECON*3660 - Economics of Equity Markets
- ECON*3740 - Introduction to Econometrics
- ECON*4800 - Theory of Strategic Management
- ECON*4840 - Applied Econometrics II

Engineering:

- ENGG*2180 - Intro Manufacturing Processes
- **ENGG*3100 - Engineering & Design III**
- ENGG*3180 - Air Quality
- ENGG*3280 - Machine Design
- **ENGG*4110 - Biological Engineering Design IV**
- ENGG*4120 - Engineering Systems and Computing Design IV
- ENGG*4130 - Environmental Engineering Design IV
- ENGG*4150 - Water Resources Engineering Design IV
- ENGG*4160 - Mechanical Engineering Design IV
- ENGG*4170 - Computer Engineering Design IV
- **ENGG*4180 - Biomedical Engineering Design IV**
- ENGG*4370 - Urban Water Systems Design
- ENGG*4390 - Bio-instrumentation Design
- ENGG*4460 - Robotic Systems

Environmental Management:

- **ENVM*3500 - Environmental Management Integrated Project**

Equine:

- **EQN*2060 - Equine Event Management I**
- **EQN*2070 - Equine Event Management II**
- **EQN*3500 – Equine Integrated Project**

French:

- **FREN*3110 – Storytelling in the Francophone World**

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Family Relations and Applied Nutrition:

- FRHD*3180 - Observation & Assessment Laboratory
- FRHD*4190 - Assessment in Gerontology

Geography:

- GEOG*2260 - Applied Human Geography
- GEOG*4150 - Catchment Processes
- GEOG*4480 - Applied Geomatics

History:

- HIST*3450 - The Uses of History
- HIST*4450 - Life, Death and Migrations

Human Kinetics:

- HK*3401/2 - Human Anatomy: Dissection
- HK*3600 - Applied Human Kinetics I
- HK*4070 - Clinical Biomechanics
- HK*4240 - Occupational Biomechanics and Ergonomics
- HK*4441/2 - Advanced Study in Human Anatomy
- HK*4600 - Applied Human Kinetics II

Hospitality and Tourism Management:

- HTM*2700 - Understanding Foods
- HTM*3030 - Beverage Management
- HTM*3060 - Lodging Management
- HTM*4050 - Wine and Oenology
- HTM*4190 - Industry Consultation
- HTM*4500 - Special Study

Interdisciplinary:

- UNIV*1200 - Feeding 9 Billion (less than 5 credits)
- UNIV*1200 – ICON - Food, Sustainability, Disability and Hands-on Learning
- UNIV*4210 - IDEAS Congress

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Mathematics:
- MATH*4440 - Case Studies in Mathematics and Statistics (New in 2019/20)

Molecular Biology and Genetics:
- MBG*3350 - Laboratory Methods in Molecular Biology I

Management:
- MGMT*4020 - Food Product Development I
- MGMT*4030 - Food Product Development II
- MGMT*4050 - Business Consulting
- MGMT*4060 - Business Consulting

Microbiology:
- MICR*3430 - Advanced Methods in Microbiology

Neuroscience:
- NEUR*3500 - Techniques in Neuroscience

Nutrition:
- NUTR*3090 - Clinical Nutrition I
- NUTR*3390 - Applied Nutritional and Nutraceutical Sciences I
- NUTR*4120 - Applied Clinical Skills
- NUTR*4330 - Applied Nutritional and Nutraceutical Sciences II

Political Science:
- POLS*3320 - Politics of Aid & Development
- POLS*4730 - International Relations of Middle East

Real Estate:
- REAL*3890 - Property Management
- REAL*4830 - Real Estate Development Project
- REAL*4870 - Sustainable Real Estate

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Theatre Studies:

- THST*1040 - Introduction to Performance
- THST*4280 - Ensemble Project

Zoology:

- 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