VII. UNIVERSITY COURSES

Courses

University courses are designed for students from different fields and
disciplines to engage in course work that is not discipline based.

UNIV*6000 The Structure and Function of Muscle *Unspecified [0.50]
An interdisciplinary course covering basic aspects of muscle from a
range of viewpoints: structure, metabolism, protein content, energetics,
mechanics, biological adaptations, growth and development. The
course is designed for graduate students from a wide range of specific
disciplines and will provide a broad background to muscle biology as well
as more detailed insights into specific aspects of each area covered.
Department(s): Department of Human Health and Nutritional Sciences
Location(s): Guelph

UNIV*6010 Regulation in Muscle Metabolism *Unspecified [0.50]
An interdisciplinary course emphasizing the regulation of muscle
metabolism in vivo. The course focuses on the integration of metabolic
fuel utilization to meet cellular energy demands under a variety of
conditions in the whole animal. Topics include: sources of energy
demand, integration of energy supply to meet energy demands, and
regulation of cell growth, maintenance and adaptation.
Department(s): Department of Human Health and Nutritional Sciences
Location(s): Guelph

UNIV*6020 Experimental Design and Applied Data Analysis for the
Agricultural Sciences Fall and Winter Reg Required [0.50]
This course focuses on statistical principles, experimental designs, and
communication of findings to research peers within the agricultural field.
Students apply statistical techniques and perform data analyses.
Location(s): Guelph

UNIV*6030 Seminars and Analysis in Animal Behaviour and Welfare Fall
and Winter Reg Required [0.50]
This seminar-based course offers an interdisciplinary forum for the
discussion of broad topics in animal welfare and human-animal
relationships. Students analyze topics presented by visiting guest
lecturers using perspectives from various disciplines such animal
science, philosophy, history, psychology, ethics, and biology.
Department(s): Department of Animal Biosciences
Location(s): Guelph

UNIV*6050 Innovation and Entrepreneurship in Agri-Food Systems Fall
and Winter Reg Required [1.00]
This course is designed for students in the OMAFRA/UoG HQP
Scholarship program, scholars from the Arrell Food Institute, and
scholars from Food from Thought, and, space permitting, is open to
any graduate student working on a thesis topic related to agri-food.
Students work in groups to collaborate with NGOs, government agencies,
or businesses on agri-food projects. Through these projects and a series
of modules, students build knowledge and competencies in business
development, communication, social innovation, project management,
and entrepreneurship. This course is limited to 36 students. Priority
to HQP Scholarship Program students, Arrell Scholars, and Food from
Thought funded graduate students.
Department(s): School of Hospitality, Food and Tourism Management
Location(s): Guelph

UNIV*6060 Mechanisms of Tissue and Cellular Mechanotransduction in
Health and Disease Fall Only [0.50]
This course explores fundamental mechanisms and signalling pathways
that dynamically regulate cell and tissues responses to physical forces in
health and disease. It is relevant to a wide range of areas of study from
biomechanics and tissue engineering to gastro-intestinal health, food and
nutrition.
Restriction(s): Instructor consent required.
Department(s): Department of Food Science
Location(s): Guelph

UNIV*6070 Topics and Analysis in Sustainability *Unspecified [0.50]
This course will allow students to examine, analyze and discuss the
evolving concept of “sustainability” in a transdisciplinary context and
build upon their knowledge and experience in this area. We will examine
various current issues that require a global understanding (e.g., climate
change, natural resource management, environmental governance) and
explore the intersection of business, society and the environment using
multi-disciplinary frameworks and perspectives.
Restriction(s): Instructor consent required.
Department(s): Dean’s Office, Gordon S. Lang School of Business and
Economics
Location(s): Guelph

UNIV*6080 Computational Thinking for Artificial Intelligence *Unspecified [0.25]
This course will provide students with an overview of the mathematical
and computational foundation that is required to undertake artificial
intelligence and machine learning research. Students will also gain an
understanding of the historical context, breadth, and current state of the
field. Students are expected to have already taken undergraduate courses
in probability & statistics, calculus, linear algebra, and data structures
& algorithms (STAT*2120, MATH*1210, ENGG*1500, and CIS*2520, or
equivalents).
Offering(s): Offered through Distance Education format only.
Department(s): Dean’s Office, College of Engineering and Physical
Sciences
Location(s): Guelph

UNIV*6090 Artificial Intelligence Applications and Society *Unspecified [0.50]
This multidisciplinary, team-taught course provides an in-depth study
of how artificial intelligence methodologies can be applied to solve real-
world problems in different fields. Students will work in groups to propose
solutions whilst considering social and ethical implications of artificial
intelligence technologies.
Prerequisite(s): UNIV*6080
Restriction(s): Restricted to students in the collaborative specialization in
Artificial Intelligence
Department(s): Dean’s Office, College of Engineering and Physical
Sciences
Location(s): Guelph

UNIV*6200 Special Student Research *Unspecified [0.25]
Location(s): Guelph

UNIV*6500 International Study Option *Unspecified [0.00]
A period of study in another country as part of a graduate program at the
University of Guelph. Details may be obtained from the Office of Graduate
and Postdoctoral Studies.
Department(s): Office of Graduate Studies
Location(s): Guelph
UNIV*6600 Animal Care Short Course  Summer, Fall, and Winter  [0.00]
The course includes on-line training modules covering the following topics: Legislation, Regulation & Guidelines, Ethological Considerations in Animal Management, Ethics in Animal Experimentation, Research Issues, The Three Rs of Humane Animal Experimentation, Occupational Health and Safety when Working with Animals, Euthanasia, Recognition and Alleviation of Pain and Distress in Animals. Graduate students using or caring for live animals or assisting in teaching courses involving live vertebrate animals also must attend the Animal Care Services species-specific Workshops as part of the Animal User Training Program.

Department(s): Office of Graduate Studies
Location(s): Guelph

UNIV*6710 Commercialization of Innovation  Fall Only  [0.50]
This course is designed to help participants better understand the process, the analytical tools that can assist the process and how best to prepare technologies to survive commercialization. The course includes elements of entrepreneurship, relationship building, organizational change, as well as project and personnel management.

Department(s): Department of Management
Location(s): Guelph

UNIV*6800 University Teaching: Theory and Practice  Fall Only  [0.50]
Participants will critically examine aspects of teaching in higher education and develop teaching skills such as lecturing, demonstrating, leading discussions, and problem solving. Satisfactory (SAT) or unsatisfactory (UNS) will be used to evaluate the student's performance in this course.

Department(s): TSS Instructional Development
Location(s): Guelph

UNIV*6900 Special Topics  Unspecified  [0.50]
This special topics course explores selected themes, topics, and/or applied practices that are not covered by existing courses and do not have a natural disciplinary home. Any unit may request an offering through the Office of Graduate and Postdoctoral Studies.

Department(s): Office of Graduate Studies
Location(s): Guelph

UNIV*7000 Qualifying Examination  Unspecified  [0.00]
Doctoral students are required to pass an examination to assess their knowledge of the subject area and related fields. Upon completing it satisfactorily, the student is deemed to have met the departmental standards and becomes a candidate for the PhD degree. Students are not responsible for registering in UNIV*7000; the Office of Graduate and Postdoctoral Studies records students as having passed or failed UNIV*7000 upon receipt of the qualifying examination report.

Department(s): Office of Graduate Studies
Location(s): Guelph

UNIV*7010 Qualifying Examination (Second Attempt)  Unspecified  [0.00]
Doctoral students who fail the Qualifying Examination may be given a second opportunity to pass the examination. This opportunity to repeat it will be no later than six months after the failed attempt. Upon completing it satisfactorily, the student is deemed to have met the departmental standards and becomes a candidate for the PhD degree. Students are not responsible for registering in UNIV*7010; the Office of Graduate and Postdoctoral Studies records students as having passed or failed UNIV*7010 upon receipt of the qualifying examination report.

Department(s): Office of Graduate Studies
Location(s): Guelph