

Sessional Appointments – Fall 2021

The Department of Integrative Biology invites applications from qualified individuals who are interested in teaching the following courses:

BIOL 2040-1 Human Physiology I	Introduction to human physiology: a systems approach. Topics include homeostasis and feedback control, enzymes and energy, membrane transport, metabolism, and the nervous, skeletal muscle, and cardiovascular systems. This course is offered on-campus and a distance course. (Prerequisites: any two first year biology courses.) (3 lecture hours a week.)
BIOL 3022-1 Research Principles and Study Design in Biological Sciences	Introduction to the logic and principles used to develop sound and efficient studies in the biological sciences: generating, testing, and discriminating among hypotheses; dealing with unwanted sources of variation; ; selecting and executing statistical analyses and evaluating their assumptions and appropriate choice of statistical analysis. Instruction in the use of selected network and personal computer software for data analysis and presentation. (Prerequisites: BIOL-2101, BIOL-2111, BIOM-2131, and STAT-2910, or consent of instructor.) (3 lecture, 2 laboratory/tutorial hours a week.)
BIOL3212 Environmental Physiology	This course is designed to introduce students to the diversity of adaptations possessed by organisms (including humans) enabling them to successfully interact with and survive in their abiotic/biotic environments. Topics will include overviews of the mechanism's organisms use to balance energetics, homeostasis and metabolism in environments varying in temperature, water availability, resources and oxygen. Descriptions of these systems will be supplemented frequently with the current methods that medical-, field- and laboratory-based researchers use to investigate these physiological adaptations to the environment. (Prerequisite: BIOL-2101 or consent of instructor) (3 lecture hours, 1 tutorial hour a week)
BIOL3261 Ornithology	This course gives students a thorough understanding of the biology of birds, with an emphasis on avian ecology, evolution, and behaviour. This course complements Ecology, Evolution, Physiology, Animal Behaviour, and Conservation. Classroom lectures are integrated with laboratory exercises which provides students with hands-on exposure to the topics covered. Students will learn to identify the common birds in the Windsor area. All students are required to participate in a full-day laboratory at Point Pelee and Holiday Beach on a weekend in late September or early October. (Prerequisite: BIOL-2101.) (3 lecture, 3 laboratory hours a week.)
BIOL3571 Animal Cells and Tissues	The structure and organization of animal systems at the tissue, cellular, and subcellular levels. Contemporary techniques, including electron microscopy, immunocytochemistry, and in situ hybridization are discussed. (Prerequisites: BIOL-2111 and BIOM-2131.) (2 lecture, 3 laboratory hours a week.)
BIOL3571 Plant Molecular Biology and Physiology	Plant development and its coordination by means of hormones and other molecular signals. Molecular approaches applied to the analysis and modification of plant development will be discussed. (Prerequisite: BIOM-2131.) (2 lecture hours, 1 seminar hour a week.)

***The successful candidate must hold a Master's degree by the date of appointment, a Ph.D. degree is preferred.**

Applications are to be submitted on or before **June 24 2021, by 3:00**

As required by the Collective Agreement, the Department of Integrative Biology is hereby calling for applications from members of the Faculty Association who are suitably qualified and interested in teaching the above-mentioned course for the **Fall 2021 semester**.

Applicants who have not previously taught courses by the Biology Department are asked to submit

1. A full C.V.
2. Teaching Dossier

Applicants from outside the University of Windsor will be expected to provide **three letters of reference**. The appointment to this position is subject to final budgetary approval.

For additional information or to submit your application please email martha@uwindsor.ca

Dr. Isabelle Barrette-Ng
Professor and Department Head

