



MEMORANDUM

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To: Lee Patterson, Chair, CGS
Date: April 1, 2021
RE: Executive Action Taken at the CLAS Curriculum Committee Meeting on Mar 31, 2021

The following request was approved by executive action at the CLAS Curriculum Committee meeting on Mar 31, 2021. The request would be effective Fall 2021. I ask that similar action be taken at the Council on Graduate Studies.

REQUEST: To include online course delivery format as an option for the following graduate-level courses.

Rationale for change: The above listed courses are all non-laboratory-based courses in Biological Sciences which are amenable to online course delivery. This type delivery can impact a greater number of students and avoid or minimize time conflicts with other coursework and research projects. Online delivery of these courses supports our recent efforts to provide an online MS program in Biological Sciences, approved by faculty vote on March 12, 2021.

Effective Year/Term: FA21

BIO	4751	Adv. Molec Cell	3	BIO 4751 - Advanced Molecular Cell Biology. (3-0-3) A study of the molecular basis of intracellular processes, including gene regulation and expression; molecular biosyntheses and transport; cell motility and adhesion; cell cycle regulation; and intracellular signaling, using case studies from current scientific literature. Credits: 3 Prerequisites & Notes BIO 3120 and 3200.
BIO	4812	Conservation Bio	3	BIO 4812 - Conservation Biology. (3-0-3) Study of the application of ecological and genetic principles to the preservation and conservation of biological diversity. Topics will include the demography and genetics of small populations, population viability, island biogeography, and the design of nature reserves. WI Credits: 3 Prerequisites & Notes BIO 3200 and 3180.
BIO	4984	Evol Biology	3	BIO 4984 - Evolutionary Biology. (3-0-3) Fundamental principles of organic evolution stressing historical fact, evidences for and processes common to all biota. WI Credits: 3 Prerequisites & Notes BIO 1550G
BIO	5381	Adv Statistics	3	BIO 5381 Advanced Statistics (3-0-3) Survey of methods of analysis of univariate and multivariate data from biological systems. Techniques will include: survival analysis, ANOVA, MANOVA, ordination methods and regression analysis. Focus will be on the practical application of techniques. Prerequisites and Notes BIO 4750 or MAT 2250G; or permission of instructor
BIO	5433	Neuro of disease	4	BIO 4833/5433. Neurobiology of Diseases. (4-0-4) Su. This course will cover in-depth the biology of important neurological and psychiatric diseases. Prerequisite: A grade of "C" or better in BIO 3120.
BIO	5434	Neurobiology	4	BIO 4834/5434. Neurobiology. (4-0-4) F. A study of the structure and function of neurons, the principal cells of the nervous system, at the molecular and cellular level. This course will emphasize neurobiological aspects of learning, memory, and behavior. Credits: 3
BIO	5435	Adv Neurobiology	4	BIO 4835/5435. Advanced Neurobiology. (4-0-4) S. This course will cover advanced topics on molecular, cellular and physiological aspects of brain structure and function during health and diseases. Prerequisites & Notes: May not have previously taken BIO 5460H-001 (CRN# 33735) or BIO 3960A-003 (CRN# 32704). The proposed course is currently being offered as a special topic course for graduate (BIO 5460H-001) or undergraduate (BIO 3960A-003) credit. Credits: 4
BIO	5460	Special Topics	1-4	BIO 5460 - Special Topics in Biological Sciences. (Arr. Arr. 1-4) On Demand. Specific areas within the cohort disciplines will be given intensive study through lectures, lab, readings, reports, papers, and discussion. Prerequisites & Notes: Student must be eligible to take graduate courses and permission from instructor. Credits: 1 to 4
BIO	5490	Genomics	3	BIO 5490. Genomics and Genetic Engineering. (4-0-4) S, Su. This course will expand the student's understanding of genetic manipulation, further their knowledge of genome research, and explore the latest research and technologies advancing the science of genetic engineering and genomics. Credits: 4
BIO	5630	Adv Evo Med	4	BIO 5630. Advanced Evolutionary Medicine. (4-0-4) On Demand. An in-depth and critical exploration of the theoretical underpinnings, foundational research, conclusions and emerging fields in evolutionary medicine focusing on case studies, primary data, online interactive sessions with worldwide experts, published literature, and on-going research. Prerequisites & Notes: BIO 3180 or BIO 4984 or permission of the instructor. Credit hours for course will be removed from student's hours toward graduation if student already has credit for or is registered in BIO 5460E (Special Topics in Advanced Evolutionary Medicine);
BIO	5150	Graduate seminar	1	BIO 5150 Graduate Seminar (2-0-1) Seminar in current biological sciences literature. Required of all biological sciences graduate students. May be repeated, with maximum of two hours credit applied to graduate degree