

Course Outline Form: Winter 2017

General Information

Course Code: ANSC*6450

Course Title: Topics in Animal Biotechnology

Course Description:

The course will explore current methods and recent advances of biotechnology, innovation, and emerging translational products of significance to animal production and human health.

Specific Description:

Explorations of developing biotechnologies in the areas such as stem cell, microbial products, recombinant pharmaceuticals production, gene editing, animal cloning, transgenesis, and gene therapy.

Credit Weight: 0.5

Academic Department (or campus): Animal Biosciences

Campus: Guelph

Semester Offering: Winter 2017

Class Schedule and Location:

TBA. The class will meet at the beginning of the semester for schedule discussion and orientation.

Instructor Information

Instructor Name: Dr. Verónica G. Rodríguez Moncalvo

Instructor Email: vgrodrig@uoguelph.ca

Instructor Phone and Extension: Not applicable

Office location and office hours: ANNU 020 - by appointment

GTA Information

GTA Name: Not applicable

GTA Email: Not applicable

GTA office location and office hours: Not applicable

Course Content

Specific Learning Outcomes:

1. Critically appraise recent research articles in the field of biotechnology
2. Recognize and evaluate methods and applications of biotechnology in animal and biomedical science
3. Effectively communicate concepts and research of biotechnology in animal and biomedical science in both oral and written manners

Lecture Content:

Not applicable

Labs:

Not applicable

Seminars:

See below (additional notes)

Course Assignments and Tests:

Assignment or Test	Contribution to Final Mark (%)	Learning Outcomes Assessed
Journal article	50	1,2,3
Critique	15	2
Seminars	35	1,2,3

Additional Notes (if required):

The JOURNAL ARTICLE should be written in the style of a review paper to be submitted to the Journal of Biotechnology, but should be more than a critical review of the topic - it should contain detailed speculation about what might occur in this field of investigation in the near future. The rough draft of the article should be submitted double-spaced, and the final copy should be single-spaced. The article should be equivalent to approximately 4-6 printed pages of the journal, plus references. The quality of the rough draft will not affect the final mark - this draft is to be submitted so that the instructor can give extra guidance.

The CRITIQUES/PEER FEEDBACK of the review articles should be constructively critical and succinct, printed single-spaced, and each no more than 0.5-1 long. You may have insights that could help your colleagues to improve their next assignments. There is no specific format. You should point out both strong points and weaknesses of the review article, making some constructive comments.

The journal articles will be available for the group to view immediately after the submission date. You will only receive critiques of your own journal article.

The SEMINAR: Each student will choose a recent article in the topic that they work on in the Journal Article section. It should be an exciting and comprehensive one in the field. The presentation is expected to be started with comprehensive background of the topic in general to set the stage. The article should be uploaded in Courselink at least three days before the presentation to allow the rest of the class to be familiar with the material and be involved in the discussion. The presentation will be 40 minutes of speaking time and 10 minutes of discussion.

Final examination date and time:

Not applicable

Final exam weighting:

Not applicable

Course Resources

Required Texts:

Not applicable

Recommended Texts:

Not applicable

Lab Manual:

Not applicable

Other Resources:

Relevant research articles discussed in seminars and journal articles for critiques will be provided in Courselink.

Field Trips:

Not applicable

Additional Costs:

Not applicable

Course Policies

Grading Policies:

Journal articles and critiques are to be submitted on the due date (TBA). There will be 10 % mark/day penalty for late submission.

Seminar presentation materials are due 72 hours before the date of the presentation. Penalty for late submission will be 10 % mark/day.

Course Policy on Group Work:

Not applicable

Course Policy regarding use of electronic devices and recording of lectures:

Electronic recording of classes is expressly forbidden without consent of the instructor. When recordings are permitted they are solely for the use of the authorized student and may not be reproduced, or transmitted to others, without the express written consent of the instructor.

University Policies

Academic Consideration:

The University of Guelph is committed to supporting students in their learning experiences and responding to their individual needs and is aware that a variety of situations or events beyond the student's control may affect academic performance. Support is provided to accommodate academic needs in the face of personal difficulties or unforeseen events in the form of Academic Consideration.

Information on regulations and procedures for Academic Consideration, Appeals and Petitions, including categories, grounds, timelines and appeals can be found in [Section II \(Academic Accommodation for Students with Disabilities, Guidelines and Procedures\) of the Graduate Program Calendar](#).

Academic Misconduct:

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community, faculty, staff, and students to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring.

University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection. Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

Detailed information regarding the Academic Misconduct policy is available in [Section II \(General Regulations\) of the Graduate Calendar](#).

Accessibility:

The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact the Student Accessibility Services (SAS), formerly Centre for Students with Disabilities (CSD), as soon as possible.

For more information, contact SAS at 519-824-4120 ext. 56208 or email sas@uoguelph.ca or visit the [Student Accessibility Services website \(http://www.uoguelph.ca/csd/\)](http://www.uoguelph.ca/csd/).

Course Evaluation Information:

End of semester course and instructor evaluations provide students the opportunity to have their comments and opinions used as an important component in the Faculty Tenure and Promotion process, and as valuable feedback to help instructors enhance the quality of their teaching effectiveness and course delivery.

While many course evaluations are conducted in class others are now conducted online. Please refer to the [Course and Instructor Evaluation Website](#) for more information.

Drop period:

The drop period for single semester courses starts at the beginning of the add period and extends to the Fortieth (40th) class day of the current semester (the last date to drop a single semester courses without academic penalty) which is listed in [Section I \(Schedule of Dates\) of the Graduate Calendar](#).

The drop period for two semester courses starts at the beginning of the add period in the first semester and extends to the last day of the add period in the second semester.