BIOL 333 Applied Biology

Fall Term

CALENDAR DESCRIPTION

The course explores biological contributions to society in the fields of environmental assessment and management, materials and food production, and biotechnology. Emphasis is placed on understanding of applied processes in relevant service and production industries.

SCHEDULE

Lectures, etc.: Please see University Timetable

Instructor	Dr. D. Lefebvre
Instructor Contact	lefebvre@queensu.ca Phone: 613-533-6141
Office Hours	TBA
TA:	TBA
TA Contact Information	See Course Website
Office Hours	Please contact your TA

Learning Objectives

The goals of Biology 333 are to provide a sound basis in the many areas of applied biology. There is emphasis on the details of the subjects, relationships with other sciences and subjects as well as the role of these areas of applied biology in our society.

Learning Hours

Теас	ching method	Average hours per week	Number of weeks	Total hours
	Lecture	2	12	24
rs	Seminar	0	0	0
hours	Laboratory Demos	0.5	12	6
	Tutorial	1	12	12
In-class	Practicum	0	0	0
=	Group learning	1	12	12
	Individual instruction			
_	Online activity	1	12	12
Other	Off-campus activity			
	Private study	4.5	12	54
Total hours on task 120		120		

Course Outline

Course Topics of Discussion are

- Biofuels
- Bioremediation
- Phytoremediation
- Agriculture
- Aquaculture
- Forensics
- Food Processing
- Biotechnology
- Environmental Restoration

Textbooks/Readings

No textbook.

See website for lecture notes and assigned readings from scientific books, journals and selected websites.

Grading Scheme (Approximate)

Component	Weight (%)	Date
Midterm	15	Week 6
Tutorial Activities	25	Throughout course
Term Paper Outline	5	Week 3
Term Paper	30	Week 12
Final Exam	25	Examination period

Grading Method

In this course, some components will be graded using numerical percentage marks. Other components will receive letter grades, which for purposes of calculating your course average will be translated into numerical equivalents using the Faculty of Arts and Science Letter Grade Input Scheme.

When letter grades are employed, the following scale will be employed for purposes of calculating your course average:

Arts & Science Letter Grade Input Scheme

Assignment mark	Numerical value for calculation of final mark
A+	93
А	87
A-	82
B+	78
В	75
B-	72
C+	68
С	65
C-	62

D+	58
D	55
D-	52
F48 (F+)	48
F24 (F)	24
F0 (0)	0

Your course average will then be converted to a final letter grade according to Queen's Official Grade Conversion Scale:

Queen's Official Grade Conversion Scale

Grade	Numerical Course
Grade	Average (Range)
A+	90-100
Α	85-89
A-	80-84
B+	77-79
В	73-76
B-	70-72
C+	67-69
С	63-66
C-	60-62
D+	57-59
D	53-56
D-	50-52
F	49 and below

Academic Integrity and Queen's Code of Conduct

Students are responsible for familiarizing themselves with the regulations concerning academic integrity and for ensuring that their assignments and conduct conform to the principles of academic integrity. Information is available in the Arts and Science Calendar (see Academic Regulation 1 -

http://www.queensu.ca/artsci/academic-calendars/regulations/academic-regulations, on the Arts and Science website (see http://www.queensu.ca/artsci/academics/undergraduate/academic-integrity), and at Biology's website (http://www.queensu.ca/biology/undergrad/integrity.html) and from the instructor of this course. Departures from academic integrity include plagiarism, use of unauthorized materials, facilitation, forgery and falsification, and are antithetical to the development of an academic community at Queen's. Given the seriousness of these matters, actions which contravene the regulations on academic integrity carry sanctions that can range from a warning or the loss of grades on an assignment to the failure of a course to a requirement to withdraw from the university.

Accommodation Policy, Exam Conflicts, and Other Conflicts

Students who feel they need accommodations for disabilities or extenuating circumstances, or have a conflict between exams or other commitments should consult the Biology Department's website for details about how to proceed (http://www.queensu.ca/biology/undergrad/integrity.html). In general, the earlier a course coordinator is apprised of an extenuating circumstance, the more likely an accommodation can be made. Students are encouraged to be proactive in anticipating difficulties, when it is possible to do so.

Students may apply to write a make-up or deferred exam if they have an exam conflict as defined in the Academic Regulations of the Faculty (See Arts and Science Calendar Regulation 8 - http://www.queensu.ca/artsci/academic-calendars/regulations/academic-regulations). In this case, the student should report to the Exams Office first to verify that there is a genuine exam conflict. Biology professors will not consider your situation to be a conflict unless it meets the criteria set out by the Faculty of Arts and Sciences.

Students may request a make-up or deferred exam if they have an exam conflict with off-campus travel associated with a field course (e.g BIOL-307/3.0 or 407/3.0) that is held during the fall or winter terms.

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Accommodation of Disabilities

Queen's University is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging academic accommodations for students with disabilities to ensure they have an equitable opportunity to participate in all of their academic activities. If you are a student with a disability and think you may need accommodations, you are strongly encouraged to contact the Disability Services Office (DSO) and register as early as possible. For more information, including important deadlines, please visit the DSO website at: http://www.queensu.ca/hcds/ds/