

Biology 4218A Plant Pathology

2021 Course Outline

This course is given in person for both lectures and laboratory periods.

Prerequisite Requirements

Unless you have either the prerequisite for this course (Biology 3218F/G) or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites. The prerequisite for this class is Biology 3218F/G.

Accessibility

Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 ext. 82147 if you have questions regarding accommodation.

Support Services

Learning-skills counsellors at the Student Development Centre (<http://www.sdc.uwo.ca>) are ready to help you improve your learning skills. They offer presentations on strategies for improving time management, multiple-choice exam preparation/writing, textbook reading, and more. Individual support is offered throughout the Fall/Winter terms in the drop-in Learning Help Centre, and year-round through individual counselling.

Students who are in emotional/mental distress should refer to Mental Health@Western (http://www.health.uwo.ca/mental_health) for a complete list of options about how to obtain help.

Additional student-run support services are offered by the USC, <http://westernusc.ca/services>.

The website for Registrarial Services is <http://www.registrar.uwo.ca>.

Course Website

Students should check OWL (<http://owl.uwo.ca>) on a regular basis for news and updates. This is the primary method by which information will be disseminated to all students in the class. Students are responsible for checking OWL on a regular basis.

Course Materials

Text Book available at the Bookstore::

Essential Plant Pathology by Schuman and D'Arcy 2nd Edition

Anticipated Lecture Topics

Biology 4218A is a course Plant Pathology. The general areas of study are listed below, check the OWL site for specific dates and reading lists.

Lecture topics and dates are on the OWL site.

Learning Objectives

Explain what is meant by phytopathology through theoretical (lecture) and practical (laboratory) learning experiences

Demonstrate the ability to identify disease symptoms and signs (both biotic and abiotic) in living plant material

Identify and describe organisms that cause plant diseases from the following groups:

Virus, Bacteria, Protozoa, Fungi, Nematodes, Plants

Understand how the infection process works, disease develops and spreads.

Understand Koch's Postulates and the Disease Triangle.

Demonstrate a knowledge of the methods used to control pathogens, including cultural, breeding, regulatory and chemical.

From the Laboratory portion of the course students should be able to define, describe and identify example pathogens, recognize their symptoms and signs and their pathogenesis.

Lecture and Instructor Information

Section	Time	Room	Instructor	Office	Email
001	T Th 1130-12:30	NCB 295	Dr. Richard Gardiner	NCB 301J	rgardine@uwo.ca
002	Th 1:30 – 4:30	B & G 2065			

If you are contacting your instructor, please use your Western email address.

Refer to the OWL site for information on the other lecturers in this team taught course.

Evaluation

Components

The overall course grade, out of 100, will be calculated as listed below. Listed next to the respective components are their maximum contributions toward the course grade.

Component	Notes	Value
Labs		35
Lab Test	Practical Lab Evaluation	15
Assignment		10
Final Exam		40

The Senate defines letter grades as following percentages:

A+ 90–100 One could scarcely expect better from a student at this level

A 80–89 Superior work which is clearly above average

B 70–79 Good work, meeting all requirements, and eminently satisfactory

C 60–69 Competent work, meeting requirements

D 50–59 Fair work, minimally acceptable

F below 50 Fail or assigned when course is dropped with academic penalty

No electronic devices may be in your possession during tests and exams.

It is Faculty of Science policy that a student who chooses to write a test or exam deems themselves fit enough to do so, and the student must accept the mark obtained. Claims of medical, physical, or emotional distress after the fact will not be considered.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at this website: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf.

Missed Course Components

If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or supporting documentation to the Academic Counselling Office of your home faculty as soon as possible.

If you are a Science student, the Academic Counselling Office of the Faculty of Science is located in WSC 140, and can be contacted at 519-661-3040 or scibmsac@uwo.ca. Their website is http://www.uwo.ca/sci/undergrad/academic_counselling/index.html.

A student requiring academic accommodation due to illness must use the Student Medical Certificate (https://studentservices.uwo.ca/secure/medical_document.pdf) when visiting an off-campus medical facility.

For further information, please consult the university's medical illness policy at http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_medical.pdf.

Missed Tests: If you miss a test there will be a scheduled make up. Valid documentation will be required from the Dean's Office.

Laboratory attendance is mandatory for credit in this course.

If you miss the Final Exam, please contact your faculty's Academic Counselling Office as soon as you are able to do so. They will assess your eligibility to write the Special Exam (the name given by the university to a makeup Final Exam). Failure to write the specified final make up may result in the student waiting until the following December to write the final Exam.

You may also be eligible to write the Special Exam if you are in a "Multiple Exam Situation" (see http://www.registrar.uwo.ca/examinations/exam_schedule.html).

Contingency plan for an in-person class pivoting to 100% online learning

In the event of a COVID-19 resurgence during the course that necessitates the course delivery moving away from face-to-face interaction, all remaining course content will be delivered entirely online, either synchronously (i.e., at the times indicated in the timetable) or asynchronously (e.g., posted on OWL for students to view at their convenience). The grading scheme will **not** change. Any remaining assessments will also be conducted online as determined by the course instructor.