

BIOLOGY 2244B—Analysis & Interpretation of Biological Data
and
STATISTICS 2244B—Statistics for Science
Winter 2018

Calendar Descriptions

Stat 2244: An introductory course in the application of statistical methods, intended for honors students in departments other than Statistical and Actuarial Sciences, Applied Mathematics, Mathematics, or students in the Faculty of Engineering. Topics include sampling, confidence intervals, analysis of variance, regression and correlation. Cannot be taken for credit.

Instructor Information

Lecturer	Jennifer Waugh
Departments	Biology <i>and</i> Statistical & Actuarial Sciences
Drop-in hours*	Mondays, 10:00 am–12:00 noon in NCB 301L Thursdays, 9:30 am–11:30 am in NCB 301L
Email Contact	

Important Information

Online Assessment: A short online Assessment administered through

No Risk Tests 1 and 2: Two (2) multiple choice, Scantron-based tests will be administered in person, outside of class time during the term. These tests assess understanding and application of course material (including Lab content where applicable). More detailed information about structure and content of these tests will be provided on the course website. These Tests are considered 'No Risk' because of how final course grades will be calculated. Each 'No Risk' Test is initially worth a fraction (i.e. 10 or 14%) of your final grade. However, your final course grade will *automatically* be calculated under each of the following scenarios; whichever scenario gives you the highest final course grade will be used when submitting your course grade:

Item	Scenario 1	Scenario 2	Scenario 3	Scenario 4
No Risk Test 1	10%	0%	10%	0%
No Risk Test 2	14%			

Assigned readings

A complete list of assigned material from the textbook resources is posted on the course website for each course topic; students are expected to complete all assigned material. Note that 'assigned' means students are expected to read and understand the material contained within the reading. While some of the material may be discussed in lecture, this is not guaranteed. All assigned reading material (i.e. that tested on Preparation Quizzes, as well as other assigned material from each lecture topic) is testable on the Labs, Quizzes, Online Midterm Assessment, Tests, and Exams, unless otherwise noted. Be sure to review the Instructor Annotations as you progress through the assigned material.

Policy for missed Tests/Exams

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 scibmsac@uwo.ca.

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

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).

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).

Students who miss a graded component in this course and do not receive appropriate accommodation from their Dean's Office will be awarded a 'O' for that component unless otherwise described above. *This applies to the Labs, the*

Computer-marked, multiple-choice tests and exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

During tests/exams, proctors will inspect all personal belongings on your desk (and even your baseball cap if you are wearing one). If any items are discovered that are not permitted (e.g. any electronic device other than a non-programmable calculator, or notes) they will be confiscated and the incident will be officially reported as an academic offence. Proctors have the discretion to move students between desks during the Tests or Exam periods.

Support Services

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.

The policy on Accommodation for Students with Disabilities can be found here:
www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_disabilities.pdf

The policy on Accommodation for Religious Holidays can be found here:
http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_religious.pdf

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>.

Clicker Use in this Course

A "clicker" is a browser page or 'app' opened on a personal WiFi device (e.g. a smartphone, tablet, or laptop). In class, instructors can ask a variety of structured questions to which you may respond by pressing the appropriate button on your device. Individual responses are collected and summarized in a graph at the front of the room. If the instructor chooses, individual responses may also be saved for future analysis. In 2244, clickers will be used primarily to promote engagement and evaluate student understanding during class. They will also provide you with credit and feedback on your lecture preparation and/or participation. The information below provides further details.

Clicker Responsibility

For Biol/Stat 2244, we subscribe to and use clicker software produced by iClicker (69.02 Tm0 Gntpoanstructor chooses,

Research

Your clicker data will not be used for any non-academic or research purpose without your consent. For any research study in which you are invited to participate, you will be provided with a Letter of Information with an opportunity to give or withhold consent. Such research will not replace the usual end of term Student Questionnaire given by the University.

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Course Schedule

This is the tentative schedule for course topics: some adjustments may be made as the course progresses, depending on the rate at which individual topics are covered. At certain points during the term, you will be responsible for covering some course material on your own time (e.g. through readings or posted videos/resources). Lab topics (e.g. 'Probability and Distributions') are tentative and may change depending on rate of progress through course material, but the dates of the lab weeks will be as described below. Note that labs only occur on the weeks described below (Preparation Lab plus 5 Labs). *Preparation Quiz dates and topics are very tentative and subject to change.*