### BIOLOG 2244B v Analysis & Interpretation of Biological Data and STATISTIC2244B v Statistics for Science Winter 2019

## Calendar Descriptions

Stat 2244:An introductory course in the application of statistical methods, intendedition or 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. Canot be taken for credit in any module in Statistics, Actala8cience, or Financial Mointeg.

Biol 2244: Measurement, sampling, estimation, and statistical hypothesis testing are considered: theory, intuitive background, and practical relevance will bested.

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associated co	ourse t	itle <b>)</b> \	/šZ	] Œ	šŒ	۷•	Œ]‰š	V	šΖ}	• 0E	P]•§	š Œ	μνΖ	] SEP	']à`÷	€0 <a"ë< td=""></a"ë<>

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.

### CourseTimetable

Lectures:	Sect 001Wednesdaysand Fridays12:30 pm t1:30 pm in NS 1
	Sect002: Tuedaysand Thurdays,3:30 pmt4:30 pmin NCB101

Labs:

Section	Day	Time	Location	
003	Tu	6:30 t9:20 pm	HSB 14	
004	Tu	6:30 t9:20 pm	NCB 105	
005	W	6:30 t		
	Th	6:30 t9:20 pm	HSB 13	
011	Tu	1:30t4:20 pm	HSB13	
012				

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## Assessmentand Evaluation

The evaluation in this course is set up to promote mastery of the material and skills by the end of the course, and to provide opportunities to learn from mistakes. To achieve these objectives, I use a flexible assessment and evaluation scheme. The basedindistribution of grades for the course initially follows the following two schemes, and then it stailored further by alternative test weighting scenariosd escribed below under Flexible Grading all cases, you final coursegrade will automatically be calculated to give you the ighest mark possible

Component	Scheme 1	Scheme 2	Learning objectives
Course Structure Quiz	1%	1%	-

### Course Structure Quiz

Purpose:	To motivate you to understand the courseructure and policies, so you know what expected/needed to be successful in the course
Format:	Multiple choice/truefalse quiz administered through OWL Tests & Quizzes Approximately 710 questionsStudents may use noprogrammable calculators.

- Details: Requires thorough understanding of the content of this course syllabus, and a ca exploration and observation of the structure and content of the OWL course webs
- Grading scheme: Your mark out of 1% is calculated based on the percentage of questions answere correctly (e.g. 6/10 correct questions results in a mark of **0r6%** the possible 1%).
- Accommodations: The quiz is available for approximately week at the beginning offee course students should endeavor to complete the quiz as early as possible in the availat period so that any problems can be dealt with accordingly. No accommodation fo missing the quiz will be provided after the final deadline.

#### Clicker Partiopation.

Purpose:	To provide reatime, formative feedback on your preparation for class and comprehension of course material; To provoke thought, discussion, and engagement with course material during c
Format:	Multiple choice questions asked varioustimes during each lecture session Approximately 35 questions each class.
Details:	Information on setting up your <b>cli</b> ker accouns an is available for approximately

# Preparation Quizzes

Purpose:	To assess your understanding of foundational vocabulary or concepts needed to upcoming lectures/labs To encourage you tactively complete and engage with the course material on a regular schedule
Format:	Multiple choice/truefalse/numeric response questions administered through OWL Tests & Quizzes imited timefor completion oncea quiz is started. Typical & 4 questions. Students may use nopprogrammable calculators.
Details:	Information on the testable content for each quiz is described on the relevant Mo

Accommodations	Activities are	e typicall	y availat	ble for 36	hours, or	frequ	iently, lon <b>Ger</b>	nsequen	tly, no
	accommoda	ation will	be given	for miss	ed Activiti	es. If	you have ext	tenuating	g
	circumstanc	es that n	nake you	u unable t	to comple	te ma	any Activities,	please	speak v
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# LabAssignments

Purpose: To

## Tests.

Purpose: To assess your understandi application

#### **Academic Policies**

The website for Registrarial Serviceshttp://www.registrar.uwo.ca

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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 studge Academic Counselling Office of the Faculty of Science is located at scibmsac@uwo.ca.

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### **Classroom Environment**

The Department of Statisticahd Actuarial Sciences has adopted a "Mutual Expectations" policy governing the classroom environment and all work submitted by students. The fulldethe policy can be found at: http://www.uwo.ca/stats/undergraduate/mutualexpectations.html In summary, the policy was developed under the premise that all interactions between students and faculty should be governed by the principles of courtesy, respect and honesty.

### **Support Services**

Please contact the course instructor if you require materia an alternate format or if ou requireany other arrangements make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 62111 ext. 82147 or any specific question garding accommodation

The policy on Accommodation for Students with Disabilities can be found here: www.uwo.ca/univsec/pdf/academic\_policies/appeals/accommodation\_distantsilpdf

The policy on Accommodation for Religious Holidays can be found here: http://www.uwo.ca/univsec/pdf/academic\_policies/appeals/accommodation\_religious.pdf

Learningskills counsellors at the Student Development Certitep (//www.sdc.uwo.ca) are ready to help you

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## **Course Schedule**

Due dates provided in this schedule currently tentativeGenerally, Assignments for labs will be due the week specified, although the particular day of the week may vary (to align with coverage of relevant material in lectures). For Activities, the time required for completiongis estimate only; this may vary from student to student As well, some Activities may be addrednoved throughout the coursechanges will always announced during class and clearly documented (with deadlines) through the OWL site or Quizzes, chapte listed are elevant to the quizzes; the quiz may not test on the entire chapter.

Week	Course Topics	ProjectedDue Dates (quizzes, activities, labs, tests)
Jan 711	Lecture 1Beingsuccessful in 2244 Lecture 2PPDAC: a scientific inquityŒ u Á } Œ I ~ ^ W Œ } o u _ • Independent StudySampling and study designs Labs:none	Activity:How willyou study for2244? (2 points,10 min) Activity:

 Feb 25Mar 1
 Lecture 13Sampling distribution foundations)

 Lecture 14.K v
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 Labs:Science communication/Figures Assignment 2 work/help period