

Statistics 1023A (Statistical Concepts  
and  
Statistics 2037A (Statistics for Health)  
Fall 2018

## Course Timetable

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Face-to-Face sessions: Tuesdays, 1:30 to 3:30 pm MC 110  
(listed as *Tutorial* in the Western Course Timetable)

To be successful in this blended course, you are encouraged to set aside approximately two (2) hours in your personal schedule each week to complete the Independent Study tasks for the week. You could select a solid two-hour block (plus time for breaks) or a couple shorter time blocks; in either case, select time(s) that you know will be consistently free in your schedule and reflect on when you will feel motivated to do work.

## Instructor Information

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Name: Jennifer Waugh

Departments: Statistical & Actuarial Sciences and Biology

Drop-in hours: Tuesdays, 10:30 am to 12:00 noon, in WSC 207

There is no need to make an appointment for drop-in hours; simply stop by. We collaborate with a white board on problems/questions with whomever drops in.

Email: Please use [jwaugh@uwo.ca](mailto:jwaugh@uwo.ca)

What is the best method of connecting with me?

As you move through the course, you may find you have questions or need clarification about something. There are several ways to connect with me; this diagram highlights the appropriate methods for some common question topics.

You can expect a response to an OWL Message or Forum posting within about 48 hours during the Monday to Friday work week. Note that Messages or Forum questions will generally not be answered in the 24-hour period before major assessments; this is meant to encourage proactive studying and help-seeking behaviour.

Be sure to check OWL announcements and your UWO email on a regular basis for news and updates related to the course.



## Learning Objectives

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As you embark on learning in this course, keep in mind that it is framed in terms of *statistical literacy*, rather than a *methods* course. That is, our goal is to develop a tool kit of knowledge and questions that we can draw on to help evaluate the validity and trustworthiness of research results and information, e.g. in popular media. Consequently, by the end of the course, learners should be able to:

- LO1: Correctly use and understand foundational vocabulary and/or concepts associated with statistics (assessed by quizzes, activities, assignments, assessments, and exams);
- LO2: Interpret, create (with the aid of suitable applications technology), and critically evaluate summaries of data (assessed by quizzes, activities, assignments, assessments, and exams);
- LO3: Design and analyze data (assessed by quizzes, activities, assignments, assessments, and exams);
- LO4: Evaluate and critique the validity of statistical research designs and conclusions (assessed by assignments, assessments, and exams);
- LO5: Evaluate statistical information presented in media and society (assessed by assignments, and exams).

## Learning Resources

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We will be using a variety of resources.

Course website (OWL) <https://owl.uwo.ca>

The OWL course site (accessible with your UWO user ID and password) will be the launching point for all online learning and assessment, as well as for major forms of communication. It is shared by students registered under Stat 1023A and Stat 2037A. The site includes:

- x lecture slides (PDF format, suitable for integration into OneNote, for example, or printing);
- x content for Independent Study work (e.g. lecture videos, textbook readings, etc.);
- x quizzes, activities, and assignment submissions;
- x communication tools (i.e. messages, forums, announcements);
- x practice questions (i.e. former exam questions);

Other resources:

In addition to the two main resources listed above, we will occasionally use articles, videos, and applets

course, if you find resources that are helpful to you for this course, I encourage you to share those resources with the rest of the class!

## Expectations for Students & Instructor

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Many of you are taking this course because it is an introductory statistics course in general required for your degree program. There is a reason for this requirement. Statistics is a science that deals with collecting, analyzing, interpreting, and presenting data; that is, statistics. However, it is a science for which many students have little experience, and the focus on the course is critical thinking and evaluation. As such, this course can be challenging. To help us maintain a safe and respectful community so that we can tackle potential challenges effectively, we should endeavor to follow these expectations:

### Student Expectations

- a. be active and participate in class settings;
- b. listen and respect others (e.g. peers, instructor, and TAs) in all settings (in class, lab, and online);
- c. be prepared for class (e.g. by completing the relevant preparatory work or activities);
- d. be comfortable taking risks in your



The purpose behind this flexible grading scheme is to provide you with multiple opportunities for feedback on your understanding of course material. If you discover that your understanding is not complete, or you perform below your desired level of success in the Inclass Assessment/Midterm, you still have other opportunities to improve on your achievement in the next Assessment and/or Final Exam (i.e. after you seek additional help/clarification to improve your mastery of the material). Because material will be approximately equivalent under each scenario.

### Course Structure Quiz

- Purpose: To motivate you to understand the course structure and policies, so you know what is expected/needed to be successful in the course
- Format: Multiple choice/true/false quiz administered through OWL Tests & Quizzes. Approximately 60 questions. Students may use non-programmable calculators.
- Details: Requires thorough understanding of the content of this course syllabus, and careful exploration and observation of the structure and content of the OWL course website.
- Grading scheme: Your mark out of 1% is calculated based on the percentage of questions answered correctly (e.g. 6/10 correct questions results in a mark of 0.6% of the possible 1%).
- Accommodations: The quiz is available for approximately one week; students should endeavor to complete the quiz as early as possible in the availability period so that any



Accommodations: If you are unable to submit an assignment by the due date, please speak with the Office of Academic Support for an accommodation.

### In-class Assessments.

- Purpose:**
- xTo assess your understanding, application, and integration of course concepts
  - xTo provide no risk opportunities for feedback on your learning throughout the course.
- Format:** Multiple choice questions administered during specified Face-to-Face sessions, using Immediate Feedback Assessment Technique (IFaT) scratch cards. Typically five (5) questions for each Assessment. Students may use non-programmable calculators.
- Details:** In-class assessments are cumulative and integrate material from both the Independent Study and Face-to-Face sessions. Information on the testable content for each Assessment will be posted on OWL under [Course Materials](#) [Test Information and Resources](#)
- Grading scheme:** IFaT cards are organized to give multiple attempts at a question, narrowin





accommodation has not been recommended by Academic Counseling. In addition, I do not apply special rounding rules (e.g. to meet GPA cutoffs, minimal requirements for programs/continuation, etc.) nor force the marks distribution to fit a theoretical model (e.g. Normal curve) when finalizing course grades.

### Senate definitions of grades

For your reference, the Senate definition for meaning of letter grades

<i>Letter Grade</i>	<i>Corresponding grade range (%)</i>	<i>Definition</i>
A+	90 to 100	One could scarcely expect better from a student at this level.
A	80 to 89	Superior work which is clearly above average.
B	70 to 79	Good work, meeting all requirements, and eminently satisfactory.
C	60 to 69	Competent work, meeting requirements.
D	50 to 59	Fair work, minimally acceptable.

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

All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com ( <http://www.turnitin.com> ).

This course will use CrowdMark, an online collaborative grading and analytic platform. For information on their privacy policy, please visit their website <https://crowdmark.com/privacy>

During tests/exams, proctors will inspect all personal belongings on your desk (and 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), you will be asked to leave the exam room. (B5 Tm Tm 94 1 40000912 0 612 792 re W,)12(o)-5(g)4(ra

## Classroom Environment

The Department of Statistical and Actuarial Sciences has adopted a "Expectations" policy governing the classroom environment and all work submitted by students. The full policy can be found at: <http://www.uwo.ca/stats/undergraduate/mutual-expectations.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 material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 6611 ext. 82147 for any specific 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](http://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](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>)



## Course Schedule

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The following schedule is *tentative*; some adjustments may be made as the course progresses, depending on the rate at which individual topics are covered. Class Assessments, Midterm, and Assignments. For Quizzes and Activities, the due dates are tentative; as well, the time required for completion is a rough estimate only and may vary from student to student. For Quizzes, chapters listed are *relevant* to the quizzes; the quiz may not test on the entire chapter.

