

Learning Outcomes

This course is meant to be

Course timetable

The course material is best organized by **topic** rather than week, with the appropriate flow of topics illustrated in the table below. Some topics are larger than others, so I have organized the course with buffer in the weeks of Jan 25, Feb 8, Mar 1, and Mar 29.

Week	Topic	Application sessions (during lecture period)	Assignments/Projects (day/time to be voted upon)	Activities available
Jan 11-15	PPDAC: A scientific inquiry framework Sampling designs & considerations	Tues/Wed: Understanding 2244		January reflection Sampling and selection bias (core) Time map
Jan 18-22	Study designs & considerations	Thurs/Fri: Planning a Sample		Practice quiz
Jan 25-29	Planning ahead: Sampling variability		Assignment 1 due	Application session participation Muddiest point
Feb 1-5	Summarizing & Exploring Data	Tues/Wed: Planning a study		February reflection Sampling distributions (core)
Feb 8-12	Probability Models & Vocabulary		Assignment 2 due	Graphs summary Practice quiz
Feb 15-19	Reading week			R practice script
Feb 22-26	Probability Models: Normal models Probability Models: Binomial models	Tues/Wed: Selecting summaries		Application session participation Muddiest Point

Course Materials

Required materials

Whether that access is individual, shared digitally

access to them to be successful in the course.

To earn:	Accomplish ALL of the following:
0%	Awarded when the exam grade is equal to the Base Grade minimum requirement.

1%

progressively through the stages of the PPDAC framework², and involve answering questions that relate to an overall research objective and set of related research questions. For each of the six (6) Assignments, there will be three (3) different types, Triangle , Square , and Circle ; these types differ in the complexity and depth at which course material and learning outcomes are assessed.

HOW?

ut .rmd files and knitting at the start of the course!). Both files must be uploaded to the OWL AND the .PDF output file must be uploaded to Gradescope.

ESSENTIAL REQUIREMENT. Satisfactory completion of the Assignments is an be eligible to earn credit (i.e. 50% or higher as a final course grade) for the course. The number of Assignments and type of Assignment (Triangle, Square, Circle) required to fulfill this Essential Requirement is described in the requirements for the Base Grade in the section above. Failing to meet the requirements for the Essential Requirement will result in a final course grade recorded as 45% (or, your calculated course grade whichever is lower).

Activities.

th deadline
contributions to the Group Project can be added later, up until the Group Projects have been graded and returned to the rest of the class. If the accommodation period extends even beyond that timeframe, then an INC will be issued. The Group Project will be completed the next term the course is offered.

Note that missed Activities are not accommodated; a student with accommodation for an Activity deadline can simply complete a different Activity that is still available (i.e. with a deadline that has not yet passed). It behooves students to complete Activities throughout the term, rather than waiting until April to submit the Activities needed for their desired Activities Grade Increment.

Late assessments (*Assignments, Group Project, Activities, or Take Home Exam*) without accommodation will not be accepted (unless a Token is redeemed where applicable)

Western University is committed to a thriving campus as we deliver our courses in the mixed model of both virtual and face-to-face formats. We encourage you to check out the Digital Student Experience website to manage your academics and well-being: <https://www.uwo.ca/se/digital/>

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>.