STATISTICS FOR
MANAGEMENT AND ORGANIZATIONAL STUDIES
MOS 2242A 550
Fall 2017 Course Outline
Faculty of Arts and Social Science, Huron University College

1.0   BASIC COURSE INFORMATION
      MOS 2242A
      Statistics for Management and Organizational Studies
      Course Prerequisites:

   1.0 course or equivalent from Calculus 1000A/B, Calculus
   1100A/B, Calculus 1301A/B, Calculus 1501A/B; the former Linear
   Algebra 1600A/B; Mathematics 1225A/B, Mathematics 1228A/B,
   Mathematics 1229A/B, or the former Mathematics 030,
   Mathematics 031, and enrolment in a MOS Honors Specialization
   or Major module.

   Antirequisites: All other University level statistics courses at the 2000 level or higher.
   Instructor: Dr. Dylan Gault
   Office: Benson 3
   Telephone: (519) 858-3492
   E-mail: dgault@uwo.ca
   Scheduled class times: Friday, 8:30 AM to 11:30 AM
   Office Hours: Wednesday 10:30 AM to 11:30 AM – HUC V214

2.0   COURSE DESCRIPTION

   The purpose of this course is to introduce students to quantitative decision-making
   skills, with an emphasis on analysis techniques used in management. Topics
   include: descriptive statistics, probability, hypothesis testing, analysis of variance,
   correlation and regression, time series forecasting, and survey techniques.

3.0   COURSE LEARNING OBJECTIVES

   Upon the completion of this course students should be able to:

   1. Understand the concepts, techniques, usefulness, strengths and limitations
      of general statistical methods.
   2. Recognize and formulate statistical problems for real life decision making.
   3. Develop formal analytic skills for the collection, presentation, analysis,
      and interpretation of business data.

4.0   DESCRIPTION OF CLASS METHODS

   Lecture; with professor/student and student/professor question/answer exchanges.
   Practice questions will be solved during lectures.

5.0   TEXTBOOKS AND OTHER REQUIRED RESOURCES

Bowerman, Aitken Schermer, Johnson, O'Connell (2014). *Business Statistics in Practice, 3rd Canadian Edition*. McGraw-Hill Ryerson.

6.0   METHOD OF EVALUATION/ASSESSMENT

This course will have weekly assignments, two mid-term exams and one final exam.

Weekly assignments will count towards part of the marks awarded for exams. Part of each exam mark will include 5% towards the final grade; these marks will be awarded based on how many assignments a student completes.

Each mid-term exam will be 25% of the final grade, with an additional 5% given for each exam based on the completion of weekly assignments.

The final exam will be worth 35% of the final grade, with an additional 5% based on the completion of weekly assignments.

Component	Date	Material Covered	Percentage of Final Grade
Class Assignments	Wednesday before class	All	15%
Mid-term 1	October 5th	Content in chapters 1, 2, 3, 4, 5, 6, 7	25%
Mid-term 2	November 9th	Content in chapters 7, 8, 9, 10, 14	25%
Final Exam	TBA	All course content	35%

7.0   TENTATIVE SCHEDULE OF CLASSES, INCLUDING REQUIRED READINGS,
        TOPICS

Date	Topic	Textbook Sections
Sept. 7	Introduction to business statistics	1.1-1.6
Sept. 14	Descriptive statistics, probability	2.1 – 2.5, 2.7, 2.8, 3.1, 3.2
Sept. 21	Discrete random variables, continuous random variables	4.1 – 4.3, 5.1 – 5.4
Sept. 28	Sampling distributions, hypothesis testing	6.1, 7.1 – 7.6
Oct. 5	**Mid-term exam**	**Content in chapters 1, 2, 3, 4, 5, 6, 7**
Oct. 5	More on hypothesis testing, effect sizes	8.1 – 8.4, 7.7, 8.1
Oct. 12	Fall reading week	
Oct. 19	Confidence intervals	9.1 – 9.6
Oct. 26	Chi-square tests	14.1, 14.2
Nov. 2	Experimental design, analysis of variance	10.1, 10.2, 10.4
Nov. 9	**Mid-term exam**	**Content in chapters 7, 8, 9, 10, 14**
Nov. 9	Correlation, linear regression	11.1 – 11.4
Nov. 16	Correlation, linear regression continued	11.5 – 11.11
Nov. 23	Multiple regression	12.1 – 12.8
Nov. 30	Time-series forecasting	16.1, 16.2, 16.6, 16.7
TBA	**Final Exam**	**All course content**

The Appendix to Course Outlines is posted on the OWL course site.