

Management Science (MGSC) 312

Statistics for Business and Economics II (Revision 6)

Register by August 10 to start by September 1

Delivery Mode: Individualized Study Online [↗](#) with **eText** [↗](#)

Credits: 3

Area of Study: Applied Studies (Business & Administrative Studies)

Prerequisites: MGSC 301 or MATH 215

Precluded: MATH 315 (MGSC 312 may not be taken for credit if credit has already been obtained for MATH 315.)

Challenge: MGSC 312 has a Challenge for Credit option.


Faculty: Faculty of Business [↗](#)

Status: Open 

Notes: Students registering in grouped study mode are advised that there may be some differences in the evaluation and course materials information indicated below. To obtain the most up-to-date information, contact the Faculty of Business Student Support Centre at 1-800-468-6531.

Overview



MGSC 312 is a second level introductory course in statistics, designed as a continuation of MGSC 301. Together, these courses provide students with basic concepts and methods of statistical analysis. The course and the textbook are tailored to meet the needs of students in administrative studies. Accordingly, all the applications problems are borrowed from business and economics, with many exercises based on real data.

Credits earned in MGSC 312 may be applied toward the **Canadian Operational Research Society (CORS)**  diploma.

Outline

- Lesson 1: Tests of Goodness of Fit and Independence
- Lesson 2: Analysis of Variance and Experimental Design
- Lesson 3: Simple Linear Regression
- Lesson 4: Multiple Regression
- Lesson 5: Index Numbers
- Lesson 6: Forecasting
- Lesson 7: Nonparametric Methods
- Lesson 8: Statistical Methods for Quality Control

Evaluation


To **receive credit**  for this course, you must submit both assignments, achieve a minimum grade of 50 percent on **each** of the two examinations (midterm and final), and achieve a minimum overall grade of **D (50 percent)**  for the entire course.



Completing the two assignments is mandatory. You are strongly encouraged to complete the assignments before writing the exams. If you do not complete an assignment, you will not be able to finish the course until you do so.

The following chart summarizes the evaluation activities:


Activity	Weight
Assignment 1	20%
Midterm Exam	30%
Assignment 2	20%
Final Exam	30%
Total	100%


To learn more about assignments and examinations, please refer to Athabasca University's [online Calendar](#) .

In response to COVID-19 containment directives, temporary online exam(s) are available for this course.



Materials

Materials

Anderson, D. R., Sweeney, D. J., & Williams, T. A. (2011). *Statistics for business and economics* (12th edition). Mason, OH: South-Western Cengage Learning. ISBN 1133274536  (eText)

Eldredge, D. L. (2005). *A Microsoft Excel companion for business statistics* (3rd edition). Mason, OH: South-Western Cengage Learning. ISBN 0324225539  (eText)

eTexts

Registration in this course includes electronic textbooks. For more information on **electronic textbooks** , please refer to our **eText Initiative site** .

Other Resources

Students will access all other course materials online.

Note: You must have Microsoft Excel installed on your computer in order to complete course requirements.

Challenge for Credit



Challenge for Credit

Overview

The Challenge for Credit process allows you to demonstrate that you have acquired a command of the general subject matter, knowledge, intellectual and/or other skills that would normally be found in a university-level course.

Full information about [Challenge for Credit](#)  can be found in the Undergraduate Calendar.

Evaluation

To [receive credit](#)  for the MGSC 312 challenge registration, you must achieve a grade of at least **D (50 percent)**  on the examination.






Paper Exam



[Challenge for Credit Course Registration Form](#)

Important Links

Important Links

- > [Academic Advising](#) 
- > [Program Planning](#) 
- > [Request Assistance](#) 
- > [Student Services](#) 
- > [CPA Requirements](#) 



Athabasca University reserves the right to amend course outlines occasionally and without notice. Courses offered by other delivery methods may vary from their individualized-study counterparts.

Opened in Revision 6, June 24, 2015

Updated July 15, 2021, by Student & Academic Services

View [previous revision](#)

