



**DEPARTMENT OF SCIENCE
COURSE OUTLINE – WINTER 2021**

ST2520 A3 INTRODUCTION TO APPLIED STATISTICS II– 3.0 (3-0-2) 75 HOURS OVER 15 WEEKS

INSTRUCTOR: Thomas Kaip
OFFICE:

PHONE: 780-539-2963
E-MAIL: tkaip@gprc.ab.ca

OFFICE HOURS: TBA

WINTER 2021 DELIVERY:

Remote Delivery. This course is delivered remotely. There are no face-to-face or onsite requirements. Students must have a computer with a webcam and reliable internet connection. Technological support is available through helpdesk@gprc.ab.ca

Note: GPRC reserves the right to change the course delivery

CALENDAR DESCRIPTION: Methods in applied statistics including regression techniques, analysis of variance and covariance, and methods of data analysis. Applications are taken from Biological, Physical and Social Sciences, and Business.

PREREQUISITE(S): ST 1510 or Equivalent

TEXTS/RESOURCE MATERIALS: The Statistical Sleuth: A Course in Methods of Data Analysis (3rd ed) Ramsey/Schafer

DELIVERY MODE(S): Lecture: A3 M W 10:00-11:20
Lab: AL1 M 14:30-16:30

COURSE OBJECTIVES: To learn methods in applied statistics including regression techniques, analysis of variance and covariance, and methods of data analysis. SPSS will be used as a tool to aid in this learning process. Applications are taken from Biological, Physical and Social Sciences, and Business.

LEARNING OUTCOMES: The student should be able to demonstrate knowledge of the course objectives describe above.

STATEMENT ON PLAGIARISM AND CHEATING: Refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at www.gprc.ab.ca/about/administration/policies/**

**Note: all Academic and Administrative policies are available on the same page.

COURSE SCHEDULE:

		<u>Weeks</u> (approximate)
1 Review, Intro + Design Concepts	Ch 1	1
2 One or Two Population Means	Ch 2, 3	2.5
3 Several Population Means	Ch 5, 6	2
4 Simple Linear Regression	Ch 7, 8	2
5 Multiple Linear Regression	Ch 9 – 12	2.5
6 Two-Factor ANOVA	Ch 13	2
Optional Non-Parametric tests	Ch 4	