



**DEPARTMENT OF SCIENCE  
COURSE OUTLINE – WINTER 2018  
ST2520 A3 INTRODUCTION TO APPLIED STATISTICS II– 3.0 (3, 0, 2) 75 HOURS**

**INSTRUCTOR:** Thomas Kaip      **PHONE:** 780-539-2963  
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**OFFICE HOURS:** TBA

**PREREQUISITE(S)/COREQUISITE:** St 1510 or Equivalent

**REQUIRED TEXTS:** Statistics 252 Introduction to Applied Statistics II, University of Alberta Custom Edition, Nelson

**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.

**CREDIT/CONTACT HOURS:** (3-0-2) 3 credits

**DELIVERY MODE(S):** Lecture:      A3    T R    8:30-9:50 J227  
   Lab:      AL1    F    8:00-9:50 J101

**Lab:** The Labs will be using *SPSS*

**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.

**TRANSFERABILITY:** See [www.gprc.ab.ca](http://www.gprc.ab.ca) and [www.acat.gov.ab.ca](http://www.acat.gov.ab.ca)

**\*\* Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions and may not meet the prerequisite requirements for other math courses. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability**

**GRADING CRITERIA:**

<b>EVALUATIONS:</b> Assignments and Labs	20%
Midterm	25% TBA
Lab Exam	15% TBA
Final Exam	40% Scheduled by Student Services

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
A <sup>+</sup>	4.0	95 – 100	EXCELLENT
A	4.0	90 – 94	
A <sup>-</sup>	3.7	85 – 89	FIRST CLASS STANDING
B <sup>+</sup>	3.3	80 – 84	
B	3.0	75 – 79	GOOD
B <sup>-</sup>	2.7	70 – 74	
C <sup>+</sup>	2.3	66 – 69	SATISFACTORY
C	2.0	62 – 65	
C <sup>-</sup>	1.7	58 – 61	
D <sup>+</sup>	1.3	55 – 57	MINIMAL PASS
D	1.0	50 – 54	
F	0.0	0 – 49	FAIL
WF	0.0	0	FAIL, withdrawal after the deadline

**STUDENT RESPONSIBILITIES:** Students are responsible for all lecture material, labs and readings. Students are expected to practice the material by doing problems from the textbook. Assignments are not accepted if handed in late. If the midterm is missed due to illness the weight will be put on the final (ie. the final will be worth 65%). If the final is missed due to illness it will be deferred (see calendar for information). A doctor's note and a phone message or email will be required in both cases.

**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/\\*\\*](http://www.gprc.ab.ca/about/administration/policies/**)

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

**COURSE SCHEDULE:**

		<b><u>Weeks</u></b> (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	