DEPARTMENT OF SCIENCE

COURSE OUTLINE – ST1510 A3 INTRODUCTION TO APPLIED STATISTICS
WINTER 2015

INSTRUCTOR: Dr. Brian Redmond, Ph.D.   **PHONE:**   (780) 539-2093
OFFICE: J206   **E-MAIL:** bredmond@gprc.ab.ca

OFFICE HOURS: TBA

PREREQUISITE(S)/COREQUISITE: Mathematics 30-1 or Mathematics 30-2 or equivalent

REQUIRED TEXTS: Introductory Statistics 8th Ed. By Prem S. Mann, Wiley 2013

CALENDAR DESCRIPTION: This course includes data collection and presentation, descriptive statistics, probability distributions, sampling distributions, and the central limit theorem, point estimation and hypothesis testing, correlation and regression analysis, goodness of fit and contingency tables.

CREDIT/CONTACT HOURS: (3-0-2) UT

DELIVERY MODE(S): Lectures: A3   T R   8:30-9:50   J226
                       Lab*:   AL1   W   2:30-4:20   A301
                       Lab*:   AL2   M   2:30-4:20   A301
                       *Labs will start in the week of Jan. 12-16

OBJECTIVES: To demonstrate the basic knowledge of descriptive statistics and its use. To perform elementary analysis of research data and to interpret the results of statistical tests. To demonstrate a conceptual knowledge of the concepts and principles involved. To select the appropriate statistical test. To be able to enter and analyze data using the computer program EXCEL.

TRANSFERABILITY: See www.gprc.ab.ca and 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:

	GRANDE PRAIRIE REGIONAL COLLEGE		
	GRADING CONVERSION CHART		
Alpha Grade	**4-point Equivalent**	**Percentage Guidelines**	**Designation**
A⁺	4.0	95 – 100	**EXCELLENT**
A	4.0	90 – 94	
A⁻	3.7	85 – 89	**FIRST CLASS STANDING**
B⁺	3.3	80 – 84	
B	3.0	75 – 79	**GOOD**
B⁻	2.7	70 – 74	
C⁺	2.3	66 – 69	**SATISFACTORY**
C	2.0	62 – 65	
C⁻	1.7	58 – 61	
D⁺	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**

EVALUATIONS:

Assignments	12%	
Lab Reports	10%	
Midterm	25%	(Week of Feb 9-13)
Lab Exam	15%	TBA
Final Exam	38%	April 16-27 inclusive (including Saturdays and evenings)

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 (i.e. the final will be worth 63%). 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/**
**Note: all Academic and Administrative policies are available on the same page.

COURSE SCHEDULE/TENTATIVE TIMELINE:

Jan 5-9, Jan 12-16	Appendix A, Chapters 1,2,3	(Jan 6 classes begin)
Jan 19-23, Jan 26-30, Feb 2-6	Chapters 4,5,6,7 + Regression and Correlation	
Feb 9-13	Midterm	
Feb 16-20	Winter Break	
Feb 23-27, Mar 2-6, Mar 9-13	Chapters 7,8,9,10	(Mar 6 last day to withdraw)
Mar 16-20, Mar 23-27, Mar 30-Apr 3	Chapters 11,12,13	(Apr 3 Good Friday – no classes)
Apr 6-10, Apr 13-14	Lab final and Review	(Apr 14 last day of classes)
Apr 16-27	Final Exams	