DEPARTMENT OF SCIENCE

COURSE OUTLINE – ST1510 INTRODUCTION TO APPLIED STATISTICS
WINTER 2012

INSTRUCTOR: Thomas Kaip **PHONE:** 539-2963
OFFICE: J218 **E-MAIL:** tkaip@gprc.ab.ca

OFFICE HOURS: TBA

PREREQUISITE(S)/COREQUISITE: Pure Math 30

REQUIRED TEXTS: Introductory Statistics 7th Ed. by Prem S. Mann

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) 3 credits

DELIVERY MODE(S):

Lecture:	A3	T R	08:30-9:50	J226
Lab:	AL1	T	2:30-4:20	A313 All labs will start in the
	AL2	M	2:30-4:20	A305 week of January 16-20

OBJECTIVES: To demonstrate the basic knowledge of descriptive statistics and its use. To be able 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	10%	
Lab Reports	15%	
Midterm	22%	TBA
Lab Exam	15%	During the week of April 9-12
Final Exam	38%	April 16-26 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 (ie. the final will be worth 60%). 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:

Part I	Describing Data	Chapters 1-3
Part II	Probability and Probabililty Distributions	Chapters 4-7
Part III	Inference about means and proportions	Chapters 8-10
Part IV	Applications	Chapters11-13