



DEPARTMENT OF SCIENCE

COURSE OUTLINE – ST1510 C3 INTRODUCTION TO APPLIED STATISTICS WINTER 2014

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

OFFICE HOURS: M W F 10:00AM-11:00AM

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: C3 W F 1:00-2:20 J227
Lab*: CL1 R 2:30-4:20 A313
Lab*: CL2 W 2:30-4:20 A312

**Labs will start in the week of Jan. 13-17*

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 |

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|---------------------|-------------|--|
| EVALUATIONS: | Assignments | 12% |
| | Lab Reports | 10% |
| | Midterm | 25% (Week of Feb 10-14) |
| | Lab Exam | 15% TBA |
| | Final Exam | 38% April 16-28 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 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/TENTATIVE TIMELINE:

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|------------------------------------|---|------------------------------|
| Jan 6-10, Jan 13-17 | Appendix A, Chapters 1,2,3 | (Jan 7 classes begin) |
| Jan 20-24, Jan 27-31, Feb 3-7 | Chapters 4,5,6,7 + Regression and Correlation | |
| Feb 10-14 | Midterm | |
| Feb 17-21 | Winter Break | |
| Feb 24-28, Mar 3-7, Mar 10-14 | Chapters 7,8,9,10 | (Mar 7 last day to withdraw) |
| Mar 17-21, Mar 24-28, Mar 31-Apr 4 | Chapters 11,12,13 | |
| Apr 7-11, Apr 14 | Review and Lab Exam | (Apr 14 last day of classes) |
| Apr 16-28 | Final Exams | |