



**DEPARTMENT of NURSING EDUCATION & HEALTH STUDIES**

**COURSE OUTLINE – FALL 2020**

**NS2115: Statistics and Knowledge Management**

**3 (3-0-0) 45 Hours/15 Weeks**

**INSTRUCTOR:**

**Dallas Sawtell**

**OFFICE:**

**OFFICE**

**HOURS:TBA**

**PHONE:**

**E-MAIL:** [dsawtell@gprc.ab.ca](mailto:dsawtell@gprc.ab.ca)

**FALL 2020 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](mailto:helpdesk@gprc.ab.ca).

**CALENDAR DESCRIPTION:**

An introduction to reading, understanding and interpreting commonly used statistics in published health sciences research. The course provides a hands-on approach to understanding measurement, sampling, and statistical analysis techniques commonly used in health care research. It introduces the concepts of information literacy, health data and big data in electronic datasets and the statistical techniques used to interpret these data in meaningful ways.

Note: Available only to Nursing Students in the Collaborative program.

**REQUIRED TEXT/RESOURCE MATERIALS:** The textbook is a free open resource at [www.lyryx.com](http://www.lyryx.com) under the open stax section called Introductory Statistics, Current Edition( by Illowsky, Dean, openstax)

**LEARNING OUTCOMES:**

1. Identify and explain levels of measurement and descriptive statistics (measures of central tendency, measures of dispersion).
2. Interpret results of parametric and non-parametric tests
3. Interpret statistical results presented in graphs and tables, including meta-analysis
4. Apply sampling and probability theories to the interpretation of health/related research
5. Understand and interpret significance and magnitude of measures of association

**TRANSFERABILITY:**

UA NURS211

**\*Warning:** Although we strive to make the transferability information in this document up-to-date and accurate, **the student has the final responsibility for ensuring the transferability of this course to Alberta Colleges and Universities.** Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at Alberta Transfer Guide main page

<http://www.transferralberta.ca> or, if you do not want to navigate through few links, at <http://alis.alberta.ca/ps/tsp/ta/tbi/onlinerearch.html?SearchMode=S&step=2>

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

**EVALUATIONS:**

- Online Quizzes                    10%
- Online Assignments            10%
- Written Assignments           20%
- Midterm Exam                    30% written and oral
  - A section Friday, October 23
  - B section Monday, October 26
- Final Exam                        30% written and oral

It is the student's responsibility to be available to write the final exam at the scheduled time. Writing early is not permitted.

**For online quizzes and assignments you need to register on Lyryx. There is a fee of \$39.95**

Student Registration Instructions:

For the **A section**: [http://login.lyryx.com/unprotected-servlets/FDOC.html?c=LILA1\\_3245](http://login.lyryx.com/unprotected-servlets/FDOC.html?c=LILA1_3245)

For the **B section**: [http://login.lyryx.com/unprotected-servlets/FDOC.html?c=LILA1\\_3246](http://login.lyryx.com/unprotected-servlets/FDOC.html?c=LILA1_3246)

**GRADING CRITERIA:**

Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**.

Alpha Grade	4-point Equivalent	Percentage Guidelines		Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	90-100		C+	2.3	67-69
A	4.0	85-89		C	2.0	63-66
A-	3.7	80-84		C-	1.7	60-62
B+	3.3	77-79		D+	1.3	55-59
B	3.0	73-76		D	1.0	50-54
B-	2.7	70-72		F	0.0	00-49

## **COURSE SCHEDULE/TENTATIVE TIMELINE: TBA**

**STUDENT RESPONSIBILITIES: STUDENT RESPONSIBILITIES:** Students are responsible for all lecture material, seminars and readings. Students are expected to practice the material by doing problems from the textbook. No late assignments or tests will be accepted. Assignments and quizzes cannot be made up if missed. 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 all cases. Cellphone use is not permitted in the classroom. This includes texting. Please turn off and put away your cellphone during class. You may be asked to leave the classroom if using a cellphone. No recording of any kind is allowed in the class, seminar or during consultation with the instructor. Refer to the College Policy on Student Rights and Responsibilities at:

[www.gprc.ab.ca/d/STUDENTRESPONSIBILITIES](http://www.gprc.ab.ca/d/STUDENTRESPONSIBILITIES)

For policies related to clinical absences, immunizations, uniforms, and other clinical requirements please see the GPRC Department of Nursing Education & Health Studies Student Handbook on Moodle.

### **STATEMENT ON PLAGIARISM AND CHEATING:**

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the College Calendar at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at <https://www.gprc.ab.ca/about/administration/policies>

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