NURSING 211: Keyano College

Statistics & Knowledge Management

COURSE OUTLINE

(2nd Year BScN)

Note: Students are expected to familiarize themselves with this course outline, the Undergraduate Nursing Programs Student Manual and Moodle site.

Section A: September 7th to October 19th, 2021

"Do not go where the path may lead, go instead where

there is no path, and leave a trail"

Ralph Waldo Emerson

Calendar statement

NURS 211 - Statistics & Knowledge Management (3 credits)

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 healthcare 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.

Credit may be obtained for only one of NURS 211 or 341.

Course hours (for this term)

Lecture: 6 hours/week for 7 weeks   Seminar: 0   Lab: 0

Course objectives

Upon completion of this course, the student will be able to:

1. Identify and explain levels of measurement.
2. Identify and explain descriptive statistics (measures of central tendency, measures of dispersion).
3. Identify and explain null and alternative hypotheses, and hypothesis testing.
4. Explain the concepts of reliability and validity in relation to measurement tools
5. Interpret results of parametric and non-parametric tests
6. Interpret statistical results presented in graphs and tables, including meta-analysis tables
7. Apply sampling and probability theories to the interpretation of health-related research
8. Describe ways in which statistics can be used to inform clinical judgement
9. Discuss the ways in which statistics help to build evidence that can be used to inform clinical judgement.

Course Instructor

Atami De Main, MHS, RN

Atami.demain@keyano.ca

Office Hours: TBD

Note:

  - Please allow 2 business days for a response. Include your course name in your subject line.
  - Professional and respectful communication is expected.

Communication:

It is the students' responsibility to ensure that they check Moodle courses <u>at minimum of twice daily, once in morning and evening</u>. It is recommended to check Moodle more frequently. It is the students' responsibility to ensure thorough review of all resources and content on the Moodle course site. The instructors have placed many resources and documents to ensure the students' success in each course.

Instructors will communicate with the student group by announcements in the news forum on Moodle. Please ensure that you check this at least twice daily.

It is the students' responsibility to <u>check their Keyano College email at minimum of twice daily</u>, once in morning and again in evening. It is recommended to check email more frequently. Please note that the method to contact your instructor is email.   Please allow a 48-hour minimum response time from your instructor on business days. Instructors will not be checking emails on evenings and weekends/holidays. Do not text or call your instructor unless you will be absent for clinical that day; inquiries related to assignments and course content will be sent in an email to your instructor.

Required Textbooks

(Note: Foundation textbooks will be used as references throughout the program. Please retain your copies as they will be required resources in future courses).

LoBiondo-Wood, G., Haber, J., Cameron, C., & Singh, M.D. (Eds.). (2018). *Nursing research in Canada: Methods, critical appraisal and utilization for evidence-based practice (4th ed.).* Toronto, ON: Elsevier Canada.

LoBiondo-Wood, G., Haber, J., & Samuels-Dennis, J. (Eds.). (2018). *Study guide: Nursing research in Canada: Methods, critical appraisal and utilization for evidence-based practice. (4th ed.).* Toronto, ON: Elsevier Canada.

Supplemental Textbooks & Resources

Please refer to Moodle for this course.

Course Evaluation

Assignments/Course components	Dates	Weight	Course objectives no.
1) Quizzes (5)	Sept 21, Sept 23, Sept 28, Oct 5, Oct 14	1% each. Mark based on the highest 4 for a total of 4%	1-9
2) Assignments (2)	Assignment 1: Sept 7 - 30 DUE: Sept 30th Assignment 2: Sept 30 - Oct 19 DUE: Oct 19th	Assignment 1 (5%) Assignment 2 (6%)	Assignment 1: Objectives 1-4 Assignment 2: Objectives 5-7
3) Midterm	October 7th	40%	1-4
4) Final	Final Exam Week (TBD)	45%	5-9

Please refer to the Assignment section and Absence from Examinations section in the Keyano College Bachelor of Science in Nursing Program Handbook 2020-2021, concerning assignments submission and absence from examinations.

Note: All methods of evaluation must be completed and submitted for grading in order to pass Nursing 211.

Evaluative Component Descriptions

1)   **Quizzes**:

Each quiz will be open-book and will include 10 multiple choice questions using a Readiness Assessment Testing (RAT) format (an initial 10-minute attempt, followed by group discussion of 10 minutes and a second 10-minute attempt, with the grade as an average of 2 attempts). Students must be present in class to write the quiz. Students absent for the quiz will be given a score of 0 for that quiz. The final mark for the quiz component of the course will be based on the best four out of five quiz scores.

2)   **Assignments:**
      Each assignment will include 30 multiple choice questions that focus on application of course material.

3)   **Midterm Exam:**
      The midterm exam will cover material from Units 1-4

4)   **Final Exam:**
      The final exam will cover material from Units 5-7

Final grades

The assignments are marked as raw scores according to the percentage weight assigned to each. The marks on course assignments will contribute to the overall letter grade according to the percentage that each assignment is weighted in the course. At the end of the course, all assignment scores are totaled for a term summary mark in the course based on the grading scale below. The FINAL COURSE GRADE is based on the cumulative total of individual student's weighted assignment marks. **Final Course Grades will be awarded according to the Keyano College Four-Point Grading Scale.**

Keyano College Percentage-Alpha Grading System

Descriptor	Percentage Scale	Alpha Scale	GPA
Excellent	96-100	A+	4.0
	90-95	A	4.0
	85-89	A-	3.7
Good	80-84	B+	3.3
	76-79	B	3.0
	72-75	B-	2.7
Satisfactory	68-71	C+	2.3
	64-67	C	2.0
Minimum Pass	60-63	C-	1.7

Poor	55-59	D+	1.3
	50-54	D	1.0
Failure	0-49	F	0.0

Progression Policy:

A passing grade of C+ for all courses and an overall yearly GPA of 2.0 (C) is required for all students to progress to the next term.

Nursing Program Policies

Keyano College is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the College in this respect. Students are particularly urged to familiarize themselves with the provisions of the Code of Student Behavior and avoid any behavior which could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offence. Academic dishonesty is a serious offence and can result in suspension or expulsion from the College.

Students must be familiar with all Nursing Program Policies. Refer to the Keyano College Nursing Program: Student Handbook for Specific Nursing Program policies and to the Keyano College Credit Calendar for general college policies.

Performance Requirements and Student Services

Student Responsibilities

It is your responsibility as a student to contact the Office of the Registrar to complete the forms for Withdrawal or Change of Registration, and any other forms. Please refer to the list of important dates as noted in the Academic Schedule in the Keyano College credit calendar. The Keyano College credit calendar also has information about Student Rights and Code of Conduct. It is the responsibility of each student to be aware of the guidelines outlined in the Student Rights and Code of Conduct Policies.

Student Attendance

Class attendance is useful for two reasons. First, class attendance maximizes a student's learning experience. Second, attending class is a good way to keep informed of matters relating to the administration of the course (e.g., the timing of assignments and exams). Ultimately, you are responsible for your own learning and performance in this course.

It is the responsibility of each student to be prepared for all classes. Students who miss classes are

responsible for the material covered in those classes and for ensuring that they are prepared for the next class, including the completion of any assignments and notes that may be due.

Academic Misconduct

Students are considered to be responsible adults and should adhere to principles of intellectual integrity. Intellectual dishonesty may take many forms, such as:

· Plagiarism or the submission of another person's work as one's own;

· The use of unauthorized aids in assignments or examinations (cheating);

· Collusion or the unauthorized collaboration with others in preparing work;

· The deliberate misrepresentation of qualifications;

· The willful distortion of results or data;

· Substitution in an examination by another person;

· Handing in the same unchanged work as submitted for another assignment; and

· Breach of confidentiality.

The consequences for academic misconduct range from a verbal reprimand to expulsion from the College. More specific descriptions and details are found in the Student Rights and Code of Conduct section of the Keyano College credit calendar. It is the responsibility of each student to be aware of the guidelines outlined in the Student Rights and Code of Conduct Policies.

In order to ensure your understanding of the concept of plagiarism, you must successfully complete the online tutorial found on ilearn.keyano.ca. Then print the certificate, sign it, and show it to each of your instructors. Your course work may not be graded until you show this signed certificate.

Late Assignments

All assignments are to be submitted as indicated in the syllabus and timetable. Extensions on assignments may be granted; however, must be negotiated with the instructor prior to the due date and with a date specified for late submissions. Assignments not submitted on the day and time specified will incur a 5% deduction per day including weekends. This will be applied each day until the assignment is received by the instructor. Students can submit assignments by e-mail on weekends.

Examinations

Please consult *Examination section of the Credit Calendar* for the policy statements on examinations. Please note that examinations begin and end at a scheduled time. All testing will occur online. Please review your course syllabus and Moodle regarding the Respondus LockDown browser requirement for all testing.

Expectations of Students Writing On-Line Exams

1. Students are responsible for accessing the exam from a location and computer of their choice. The student is responsible for discussing any computer/internet issues with the Instructor at least two days prior to the exam date listed on the course timetable.
2. Quizzes and exams are not open book exams (unless specified). The quiz or exam is to have been studied for prior to the quiz/exam date and is to be completed independently; that is by oneself, not in collaboration with or company of another person or persons. No photos of quiz/exam questions are to be taken via phones.
3. Once the quiz/exam has started, the student will submit their answers immediately before going on to the next question. The student will not be able review/change answers.
4. Students must ensure they have a reliable internet connection.
5. If students are writing from outside Fort McMurray, or in another province, it is the students' responsibility to ensure the time change is adhered to. That is if the exam is to start at 0900 hours Alberta time and is being written in Ontario, then the time to begin the exam is at 1100 hours Ontario time. It is **strongly recommended** that students write within Alberta as Moodle may not be supported outside of the province. Students must seek permission from instructor if writing a quiz/exam outside of the province.
6. Time for online quizzes/exams will be strictly adhered to. For example, if a quiz is for thirty minutes it will be open for exactly thirty minutes. The instructor will let the student know the exact time of the quiz/exam.
7. No grades will be released until the instructor has had time to review the quiz/exam stats. Once the review has been done, the marks will be released. Review of quiz/exam questions in class will be done at the Instructor's discretion.
8. If any issue arises during the taking of the quiz/exam, the student is to contact the instructor immediately at the time of the issue.
9. It is the responsibility of each student to be familiar with the contents of the Student Code of Conduct, signed in first year and available on Moodle for students to review.

Using LockDown Browser for Online Exams

This course requires the use of LockDown Browser for online exams.

(1) Watch this short video to get a basic understanding of LockDown Browser and the optional webcam feature (which may be required for some exams).
(2) Then download and install LockDown Browser from this link:

   https://ilearn.keyano.ca/course/view.php?id=28874#section-7

To take an online test, start LockDown Browser and navigate to the exam. (You will not be able to access the exam with a standard web browser.) For additional details on using LockDown Browser, please review the Remote Learning for Students on Moodle via this link
https://ilearn.keyano.ca/course/view.php?id=28874#section-7

Finally, when taking an online exam, follow these guidelines:

- Select a location where you will not be interrupted

- Before starting the test, know how much time is available for it, and that you have allotted sufficient time to complete it
- Turn off all mobile devices, phones, etc. and do not have them within reach

- Clear your area of all external materials — books, papers, other computers, or devices

- Remain at your desk or workstation for the duration of the test

- LockDown Browser will prevent you from accessing other websites or applications; you will be unable to exit the test until all questions are completed and submitted

Specialized Supports

The Student Services department is committed to Keyano students and their academic success. There are a variety of student supports available at Keyano College. Due to the continuing situation with the Covid-19 pandemic, the offered support services will be implemented through a model to respond to the restrictions in force at the time. In-person and virtual services will be offered. All Alberta Health Services guidelines will be followed for in-person appointments—wear a mask, maintain two meters of physical distance, use hand sanitizer, and stay home if you are unwell.

All student services are available during Keyano business hours: Monday to Friday, 8h30-16h30. The College is closed for statutory holidays. If you require support outside of regular business hours, please inform the support service team, and we will do our best to accommodate your needs.

Accessibility Services: provides accommodations for students with disabilities. Students with documented disabilities, or who suspect a disability, can meet with a Learning Strategist to discuss their current learning barriers and possible accommodations. Students who have accessed accommodations in the past are encouraged to contact us to request them for the semester. Please note that requesting accommodations is a process and requires time to arrange. Contact us as soon as you know you may require accommodations. For accessibility supports and to book an appointment, please contact accessibility.services@keyano.ca

Accessibility Services also provides individual and group learning strategy instruction for all students, as well as technology training and supports to enhance learning. Meet with a Learning Strategist to learn studying and test-taking strategies for online classes. Schedule an appointment with the Assistive Technology Specialist to explore technology tools for learning. Book an appointment today by emailing accessibility.services@keyano.ca

Wellness Services: offers a caring, inclusive, and respectful environment where students can access free group and individual support to meet academic and life challenges. Mental Health Coordinators offer a safe and confidential environment to seek help with personal concerns. Students may access services virtually and in-person.

Wellness Services welcomes students to participate in any of the virtual group sessions offered

throughout the academic year addressing topics including mindfulness and test anxiety.

Individual virtual appointments can be made by emailing wellness.services@keyano.ca

Library Services: provides students with research and information supports as they engage in their studies. Library staff are available to support you both online and in-person throughout the semester. For a detailed list of library supports and services, go to www.keyano.ca/library For all inquiries, please email askthelibrary@keyano.ca or chat with us online.

Begin your research with the Library's FIND page. Search for information and sources for your assignments using OneSearch, the Library's Catalogue, or by searching in a specific database selected from the A-Z Database List.

Individual support with us is available. For support with citations, research and other information needs, appointments can be booked using the online Book A Librarian Calendar. For support with Moodle, educational tools for assignments, Microsoft Office, Zoom, Teams and more, book an appointment using the online Educational Technology Support Calendar.

Research and subject guides are helpful resources when beginning your research, assignment, using new educational technology, or addressing other information needs. To view a subject or course-specific guide, check out the complete listing of online Subject Guides.

To access additional research resources, including Citation Guides (APA, MLA, Chicago, or IEEE), go to the Research Help Library page.

The Loanable Technology collection is available to support students in their learning pursuits, whether online, in person or both. Items available for borrowing include mobile projectors, webcams, noise-cancelling headphones, Chromebooks, and laptops. For an up-to-date list of technology available for borrowing as well as support available, go to the Library's Loanable Technology webpage.

Academic Success Centre: The Academic Success Centre is a learning space in the Clearwater Campus (CC-119) at Keyano College. Students can gather to share ideas, collaborate on projects, get new perspectives on learning from our Academic Content Specialists, or use the Centre's educational resources. The Academic Success Centre provides academic support services to students registered in credit programs at Keyano College in the form of individual tutoring, writing support groups, facilitated study groups, workshops, and study space. Services are **free** to Keyano students.

Academic Content Specialists are available in the areas of Math, Science, Human Services, and English/Humanities. This covers all courses offered at Keyano. The Academic Success Coach can also be found in the Academic Success Centre.

For the most up to date information on how to book a session, please view the Keyano Academic Success Centre homepage.

Academic Integrity: The goal of the Academic Success Centre is to foster a student's ability to learn effectively and independently. Students registered at Keyano College are welcome to drop by the Centre to visit with any of our Academic Content Specialists to discuss their academic concerns.

Availability: Monday to Friday: 8:30 a.m. – 4:30 p.m. Flexible times may be available upon request. Virtual and in-person sessions, please email to get in contact with our Academic Content Specialists. For the most up to date information on how to book a session, please view the Academic Success Centre homepage

Academic Success Coach: offers you support and access to resources for your academic success to help you to find the Keys to your Success. The Academic Success Coach will work with you to develop an academic success plan, develop your study and time management skills, and connect you with the right resources here at Keyano. Academic.success@keyano.ca is the best way to access resources during blended service delivery. The Academic Success Coach is located in the Skill Centre in CC-119 at the Clearwater Campus.

E-Learning

Technology and internet will impact your online learning experience. It's important that you can watch an online video and other course materials, take online quizzes, and participate in a live class with your instructor and other students. Live/virtual classes will be hosted in Microsoft Teams or Zoom.

For all course delivery types, you will access your course resources on Keyano's learning management system, **Moodle (iLearn)**. Login in using your Keyano username and password. Keyano College operates in a Windows based environment and having the correct tools for online learning is important. Here's a list of recommended system requirements.

Internet Speed

Minimum Internet speeds of 10 Mbps. Recommended Internet speeds of 25 Mbps (especially if you are sharing your internet at home). Check your internet speed with Fast.com.

System requirements:

Microsoft Windows	Apple
Minimum Requirements: A Windows 10 **computer/laptop** · Minimum 4GB of RAM. · 10GB+ available hard drive storage. · Enough available hard drive space to install the Microsoft Office suite (approximately 3GB). Microsoft Office software is free to all Keyano students and employees. · Microphone, webcam and speakers. A headset with a microphone is recommended. · System updates must be regularly installed. · Anti-Virus / Anti-Malware software	**Minimum Requirements:** A Macintosh (V10.14 and above) **computer/laptop** · Minimum 4GB of RAM. · 10GB+ available hard drive storage. · Enough available hard drive space to install the Microsoft Office suite (approximately 3GB). Microsoft Office software is free to all Keyano students and employees. · Microphone, webcam and speakers. A headset with a microphone is recommended. · System updates must be regularly installed. · Anti-Virus / Anti-Malware software.
Recommended Requirements · 8GB of RAM · A method of backing up/synchronizing to local or cloud-based storage such as OneDrive is highly recommended. This is included if you complete the setup of KeyanoMail and download MS Office using your Keyano email for free.	**Recommended Requirements** · 8GB of RAM · A method of backing up/synchronizing to local or cloud-based storage such as OneDrive is highly recommended. This is included if you complete the setup of KeyanoMail and download MS Office using your Keyano email for free.
Chromebooks are **not** recommended as they are not compatible with testing lockdown browsers. A Microsoft Surface or iPad or iPad Pro may be possible alternatives in some program areas.	

Specific Department Requirements:

Business and OA programs require Windows 10.

Other programs may utilize Windows based tools as well.

Computer Software

Students will be able to get access to Microsoft Office 365 for free using Keyano credentials by

clicking here.

Recording of Lectures and Intellectual Property

Students may only record a lecture if explicit permission is provided by the instructor or by Accessibility Services. Even if students have permission to record a lecture or lecture materials, students may not share, distribute, or publish any of the lectures or course materials, this includes any recordings, slides, instructor notes, etc. on any platform. Thus, no student is allowed to share,

distribute, publish or sell course related content (instructor, or students) without permission. It is important to recognize that the Canadian Copyright Act contains provisions for intellectual property. The Academic Integrity Policy provides additional information on Keyano College's expectations from students as members of the intellectual community.

ITS Helpdesk

If you are having issues with your student account, you can contact the ITS Helpdesk by emailing its.helpdesk@keyano.ca or calling 780-791-4965.