COURSE OUTLINE: STAT3150 - STATS AND DATA

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Course Code: Title	STAT3150: STATISTICS AND DATA ANALYSIS
Program Number: Name	3401: HONOURS BSCN
Department:	BSCN - NURSING
Academic Year:	2025-2026
Course Description:	This introductory course provides students with the basic concepts of data analysis and statistical computing. Technology and statistical literacy will be integrated to prepare them to address problems that involve collecting, measuring, analyzing, comparing and presenting data sets in a clear and meaningful way.
Total Credits:	3
Hours/Week:	3
Total Hours:	36
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	BSCN3102
Substitutes:	HTH106
This course is a pre-requisite for:	BSCN4000, BSCN4001, BSCN4002, BSCN4010
Vocational Learning Outcomes (VLO's) addressed in this course: Please refer to program web page for a complete listing of program outcomes where applicable.	**3401 - HONOURS BSCN** VLO 1 Meet professional practice requirements as identified in the current Entry-to-Practice Competencies and Professional Standards of the College of Nurses of Ontario. VLO 7 Utilize available technologies to communicate, educate, and provide appropriate care in a variety of contexts.
Essential Employability Skills (EES) addressed in this course:	EES 3 Execute mathematical operations accurately. EES 4 Apply a systematic approach to solve problems.
Course Evaluation:	Passing Grade: 65%, A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.
Other Course Evaluation & Assessment Requirements:	In addition to the assigned textbook, this course draws in the following resources: Current scholarly articles as assigned Full computer Internet and LMS access

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Important note about course evaluation:
Successful completion of this course is dependent on all assignments being completed and submitted.
If this course has any components graded on a satisfactory/unsatisfactory grading scheme, each assignment must achieve a grade of satisfactory , in addition, a minimum cumulative grade of 65% is required to pass the course.

Books and Required Resources:

Statistics for Nursing: A Practical Approach with Navigate Advantage Access by Elizabeth Heavey
Publisher: Jones & Bartlett Learning Edition: 4th Canadian
ISBN: 9781284254907

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
Reframe information, ideas, and concepts using the narrative, visual, numerical and symbolic representations which demonstrate an understanding of statistics using industry standards.	1.1 Interpret statistical data and findings presented in numerical, visual (e.g., graphs, charts), and symbolic (e.g., formulas) formats according to industry standards. 1.2 Summarize key statistical results using clear and concise narrative explanations tailored to diverse audiences. 1.3 Construct appropriate visual representations (e.g., histograms, scatter plots, pie charts) to effectively communicate statistical information.
Course Outcome 2	**Learning Objectives for Course Outcome 2**
Apply a wide variety of mathematical techniques to the degree of accuracy required to solve problems and make decisions using methods learned in the course.	2.1 Estimate and verify results to ensure the level of precision is appropriate for the context of the problem. 2.2 Apply mathematical reasoning to interpret quantitative information and support decision-making in practical scenarios. 2.3 Solve multi-step problems using a combination of mathematical methods and logical processes. 2.4 Evaluate the appropriateness and limitations of different mathematical approaches in various problem-solving contexts.
Course Outcome 3	**Learning Objectives for Course Outcome 3**
Evaluate the validity of arguments using qualitative and quantitative information in order to accept or challenge the findings of others.	3.1 Differentiate between qualitative and quantitative data sources and assess their relevance and reliability in supporting arguments. 3.2 Analyze the structure of arguments to identify claims, supporting evidence, assumptions, and potential biases. 3.3 Interpret statistical and qualitative data to assess whether conclusions are logically and empirically supported. 3.4 Apply critical thinking frameworks to evaluate the strength and validity of findings presented in academic, professional, or media sources.

Evaluation Process and Grading System:	Evaluation Type	Evaluation Weight
	Assignment 1	15%
	Assignment 2	15%
	Final Exam	20%
	In-Class Activities	30%
	Midterm Exam	20%

Date:	December 15, 2025
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.