



COURSE OUTLINE: BSCN3102 - RESEARCH I

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Approved: Bob Chapman, Dean, Health

Course Code: Title	BSCN3102: RESEARCH I
Program Number: Name	3401: HONOURS BSCN
Department:	BSCN - NURSING
Academic Year:	2024-2025
Course Description:	In this course, students learn the basics of nursing research, and the value of selecting a quantitative methodological approach to investigate areas of nursing inquiry. The intent of the course is to aid students in becoming competent consumers of nursing research by understanding how quantitative research findings can be applied to their nursing practice.
Total Credits:	2
Hours/Week:	2
Total Hours:	24
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	STAT3150
This course is a pre-requisite for:	BSCN4000, BSCN4001, BSCN4002, BSCN4010
Vocational Learning Outcomes (VLO's) addressed in this course:	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 4 Contribute to the nursing profession and healthcare through the practice of critical inquiry, self-reflection, and a commitment to professional growth through lifelong learning. 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 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience. EES 6 Locate, select, organize, and document information using appropriate technology and information systems. EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others.
Course Evaluation:	
Other Course Evaluation & Assessment Requirements:	Successful completion of this course is dependent on all assignments being completed and submitted.



Use of AI to generate assignments is considered plagiarism and will receive a grade of 0. AI is permitted for use as an editing tool (e.g. Grammarly, Word Editor, etc.), however, use of AI for paraphrasing or rewriting work is not permitted. If AI is used for editing written assignments, submit both the final draft (i.e. draft prior to submitting to AI editing tool) and the final assignment for comparison.

Books and Required Resources:

LoBiondo-Wood and Haber’s Nursing Research in Canada: Methods, Critical Appraisal, and Utilization by Singh M.D.
 Publisher: Elsevier Edition: 5
 ISBN: 9780323778985

Publication manual of the American Psychological Association: The Official Guide to APA Style by American Psychological Association
 Publisher: American Psychological Association Edition: 7
 ISBN: 9781433832161
 online version at: <http://apastyle.org/>

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
Identify vocabulary terms that are traditionally associated with quantitative research studies.	1.1 Generate a list of research terms and definitions. 1.2 Apply research terminology in written assignments. 1.3 Discuss philosophical and theoretical foundations of nursing research (e.g. ontology, epistemology, methodology, axiology, paradigms). 1.4 Identify and describe the major components of quantitative research reports. 1.5 Construct a critique of a quantitative research report.
Course Outcome 2	Learning Objectives for Course Outcome 2
Complete the Tri-Council Policy Statement Course on Research Ethics 2022 as a basis for discussion on the important additional ethical concerns involved with conducting research with Indigenous peoples.	2.1 Discuss legal and ethical considerations in relation to research. 2.2 Discuss the historical context of research and Indigenous peoples. 2.3 Analyze ethical considerations for research with Indigenous peoples. 2.4 Examine the principles of OCAP.
Course Outcome 3	Learning Objectives for Course Outcome 3
Identify unique components specific for experimental, quasi-experimental, and non-experimental research designs.	3.1 Define research design. 3.2 Identify the purpose of the research design. 3.3 Describe concepts of control, manipulation, and randomization. 3.4 Differentiate between experimental, quasi-experimental, and non-experimental research designs. 3.5 Critically appraise the research design.
Course Outcome 4	Learning Objectives for Course Outcome 4
Use a critical thinking decision pathway to provide accurate rationale for	4.1 Explain what it means to be an informed consumer of research. 4.2 Differentiate among conduct of nursing research, research



	selecting the best design for studying the research question/hypothesis posed.	utilization, and evidence-informed practice. 4.3 Identify steps for evaluating an evidence-informed change in practice. 4.4 Discuss critical appraisal as a means of determining the quality of research. 4.5 Describe the relationship between critical appraisal and evidence-informed practice. 4.6 Develop strategies for searching online databases. 4.7 Discuss the purpose of developing clinical questions, research questions, and hypotheses. 4.8 Identify the characteristics of clinical questions and research questions. 4.9 Identify and apply the criteria used for critiquing a research question and hypothesis.
	Course Outcome 5	Learning Objectives for Course Outcome 5
	Identify the flow of the research process when a quantitative methodology is used.	5.1 Explain the quantitative research process. 5.2 Discuss the purpose of quantitative research process. 5.3 Associate the components of research reports in relation to the research process. 5.4 Analyze the execution of the research process within a variety of quantitative research reports. 5.5 Explore the role of theory in nursing research.
	Course Outcome 6	Learning Objectives for Course Outcome 6
	Compare advantages and disadvantages of various sampling strategies for obtaining subjects in quantitative research studies.	6.1 Define population, sample, sampling, nonprobability sampling, and probability sampling. 6.2 Identify the purpose and types of various quantitative sampling strategies. 6.3 Contrast advantages and disadvantages of sampling strategies. 6.4 Discuss eligibility criteria for sample selection. 6.5 Distinguish the factors that influence the determination of sample size. 6.6 Consider the criteria for critiquing a sampling strategy.
	Course Outcome 7	Learning Objectives for Course Outcome 7
	Compare advantages and disadvantages of various data collection methods used in quantitative research studies.	7.1 Define the types of data collection methods used in quantitative research. 7.2 List advantages and disadvantages of each data collection method. 7.3 Compare how specific data collection methods contribute to the quality of a study. 7.4 Critically appraise data collection methods used in quantitative research reports.
	Course Outcome 8	Learning Objectives for Course Outcome 8
	Differentiate between the use of descriptive and inferential statistics for data analysis in quantitative research studies.	8.1 Differentiate between descriptive and inferential statistics. 8.2 Identify the levels of measurement in a research study. 8.3 Distinguish between parametric and nonparametric tests. 8.4 List commonly used statistical tests and their purposes. 8.5 Critically appraise the statistics used in published research

	studies.
Course Outcome 9	Learning Objectives for Course Outcome 9
Explore options for data analysis and presentation of findings in quantitative research studies.	9.1 Identify different data analysis software (e.g. SPSS). 9.2 Discuss the difference between the results and discussion section of a study. 9.3 Distinguish between statistical and clinical significance. 9.4 Explain the importance of including generalizations and limitations of a study in a report. 9.5 Determine the purpose of including recommendations in the study report. 9.6 Critically appraise the presentation of findings in a research report.
Course Outcome 10	Learning Objectives for Course Outcome 10
Understand the important role that QUANT can play simultaneously or sequentially when researchers use a mixed (multi) research methodology.	10.1 Define mixed-methods research methodology. 10.2 Explain the value of mixed-methods research. 10.3 Distinguish between the simultaneous and sequential use of quantitative methods in mixed-methods research. 10.4 Discuss the critical appraisal of mixed-methods research.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Evidence-Informed Practice Assignment	20%
Final Exam	25%
Midterm Exam	20%
QUANT Critical Appraisal Assignment	25%
TCPS CORE 2022 Certificate	10%

Date: November 26, 2024

Addendum: Please refer to the course outline addendum on the Learning Management System for further information.