63-620. Advanced Perspectives in Quantitative Research Methods and Analyses
Learning Outcomes
Last Updated: December 15, 2017
(PDC171215-5.7)

Course Learning Outcomes At the end of this course, the successful student will know and be able to:	Characteristics of a University of Windsor Graduate A U of Windsor graduate will have the ability to demonstrate:
A. Utilize knowledge of the assumptions and application of various multivariate statistical techniques to inform decisions about the selection of the best analyses to address specific research questions. (Applicable to C and D) Synthesize and integrate knowledge of research design and statistical methods to develop scientifically rigorous nursing research. (Applicable to B, C, D, H) Assess selected statistical databases, perform the appropriate analyses, and draw sound conclusions about the results of these analyses. (Applicable to C and D).	A. the acquisition, application and integration of knowledge
B. Critically appraise the designs and findings of nursing and clinical research reports with regard to factors affecting their internal and external validity. Distinguish among the various sources of bias, confounding, effect mediation, and effect moderation in nursing and clinical research and explain the impact that bias and confounding may have on research findings. (Applicable to C).	B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)
C. Differentiate between statistical and clinical significance of study findings as they pertain to the conduct and dissemination of ethical research. (Applicable to E and I)	C. critical thinking and problem-solving skills
D. Synthesize and integrate knowledge of research design and statistical methods to develop scientifically rigorous nursing research. (Applicable to B, C, D, H)	D. literacy and numeracy skills
E. Differentiate between statistical and clinical significance of study findings as they pertain to the conduct and dissemination of ethical research. (Applicable to C, E and I)	E. responsible behaviour to self, others and society
F.	F. interpersonal and communications skills

Course Learning Outcomes	Characteristics of a University of Windsor Graduate
At the end of this course, the successful student will know and be able to:	A U of Windsor graduate will have the ability to demonstrate:
G.	G. teamwork, and personal and group leadership skills
H.	H. creativity and aesthetic appreciation
I. Differentiate between statistical and clinical significance of study findings as they pertain to the conduct and dissemination of ethical research (Applicable to C, E and I) .	I. the ability and desire for continuous learning