

ORIGINAL COURSE IMPLEMENTATION DATE:

REVISED COURSE IMPLEMENTATION DATE:

September 1992 September 2026

August 2031

COURSE TO BE REVIEWED (six years after UEC approval):

Course outline form version: 29/08/2024

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: CRIM 320		Number of Credits: 3 Course credit policy (105)					
Course Full Title: Quantitative Data Analysis							
Course Short Title: Quantitative Data Analys	sis						
Faculty: Faculty of Social Sciences		Department/School: Criminology and Criminal Justice					
Calendar Description:	Calendar Description:						
Examines quantitative research methods and data analyses commonly used in criminal justice. The concepts underlying statistical tests will be discussed and statistical programs will be used to analyze and interpret data.							
Prerequisites (or NONE):	45 university-level credits including CRIM 220, 6 additional credits of 200-and one of (STAT 104, STAT 106, or PSYC 110).			edits of 200-level CRIM,			
Corequisites (if applicable, or NONE):	NONE						
Pre/corequisites (if applicable, or NONE):	Pre/corequisites (if applicable, or NONE): NONE						
Antirequisite Courses (Cannot be taken for additional credit.)		Course Details					
Former course code/number:			Special Topics course: No				
Cross-listed with:			(If yes, the course will be offered under different letter designations representing different topics.)				
Equivalent course(s):			Directed Study course: No				
(If offered in the previous five years, antirequisite course(s) will be			(See policy 207 for more information.)				
included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)			Grading System: Letter grades				
				Delivery Mode: May be offered in multiple delivery modes			
Typical Structure of Instructional Hours				Expected frequency: Twice per year			
Lecture/seminar		30	-	Maximum enrolment (for information only): 30 Prior Learning Assessment and Recognition (PLAR)			
Supervised laboratory hours (computer lab)		15					
				_	Recognition (PLAR)		
			PLARIS	s available for this course.			
	Total hours	45	Transfe	er Credit (See <u>bctransfer</u>	guide.ca.)		
Scheduled Laboratory Hours Transf			Transfe	nsfer credit already exists: Yes			
Labs to be scheduled independent of lecture hours: No				Submit outline for (re)articulation: Yes (If yes, fill in <u>transfer credit form.</u>)			
Department approval				Date of meeting:	March 13, 2025		
Faculty Council approval			Date of meeting:	May 9, 2025			
Undergraduate Education Committee (UEC) approval			Date of meeting:	August 28, 2025			

Learning Outcomes (These should contribute to students' ability to meet program outcomes and thus Institutional Learning Outcomes.)

Upon successful completion of this course, students will be able to:

- 1. Apply the logic of scientific enquiry to statistical testing of hypotheses.
- 2. Empirically measure theoretical concepts through the use of multiple indicators and creation of composites/indexes.
- 3. Assess statistical analyses and findings of criminological or criminal justice issues.
- 4. Evaluate the strengths and weaknesses of quantitative statistical techniques.
- 5. Use SPSS or other statistical programs to work with data.
- Statistically analyze data to answer quantitative research hypotheses.
- Articulate the strengths and limitations of quantitative approaches in addressing research involving racialized and marginalized groups.

Recommended Evaluation Methods and Weighting (Evaluation should align to learning outcomes.)

Quizzes/tests/midterm: 25%	Final exam: 30%	Assignments: 45%
%	%	%

Details:

Assignments may include analyzing survey data, reporting and interpreting statistical tests, infographics, and brief reports.

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Instructional Methods (Guest lecturers, presentations, online instruction, field trips, etc.)

Lectures and computer labs

Texts and Resource Materials (Include online resources and Indigenous knowledge sources. <u>Open Educational Resources</u> (OER) should be included whenever possible. If more space is required, use the <u>Supplemental Texts and Resource Materials form.</u>)

	Туре	Author or description	Title and publication/access details	Year
1.	Textbook	Babbie, E.R., Wagner, W.E., & Zaino, J.S.	Adventures in Social Research: Data Analysis Using IBM SPSS Statistics (Sage Publications, Inc.)	2022
2.	Textbook	Noack, A.M.	Social Statistics in Action: A Canadian Introduction (Oxford University Press)	2018
3.	Online resource	BC Office of the Human Rights Commissioner	Disaggregated Demographic Data Collection in British Columbia: The Grandmother Perspective	2020
4.				
-		·		

Required Additional Supplies and Materials (Software, hardware, tools, specialized clothing, etc.)

Statistical software subscription (e.g., SPSS), which is typically provided on UFV computers

Course Content and Topics

- Overview of quantitative research
- Introduction to SPSS software
- · Creating a database
- Descriptive statistics
- · Normal distribution and standard scores
- Probability theory and hypothesis testing
- Recoding data
- Chi-square
- t-Test
- ANOVA
- Correlation
- Multiple Regression
- Ethical issues in the use of quantitative data
- Impact of quantitative statistics in analyzing research involving racialized and marginalized groups