ORIGINAL COURSE IMPLEMENTATION DATE: September 1992
REVISED COURSE IMPLEMENTATION DATE: September 2018
COURSE TO BE REVIEWED: (six years after UEC approval)   February 2024
Course outline form version: 09/15/14

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 Research Techniques
Course Short Title (if title exceeds 30 characters): Quant. Research Techniques

Faculty: Faculty of Social Sciences	**Department (or program if no department):** CRIM

Calendar Description:

Students will become familiar with quantitative data analyses. The concepts underlying statistical tests will be discussed. Students will also gain practical experience with statistics using a statistical program on computers to analyze and interpret data.

Prerequisites (or NONE):	Admission to the Bachelor of Arts (Criminal Justice) and 45 university-level credits including CRIM 220, 6 additional credits of 100- or 200-level CRIM, and one of (STAT 104, STAT 106, or PSYC 110 with a C or better).
Corequisites (if applicable, or NONE):	NONE
Pre/corequisites (if applicable, or NONE):	NONE

Equivalent Courses (cannot be taken for additional credit)	Transfer Credit
Former course code/number: **NONE** Cross-listed with: **NONE** Equivalent course(s):**NONE** *Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.*	Transfer credit already exists: ☒ Yes ☐ No Transfer credit requested (OReg to submit to BCCAT): ☐ Yes ☒ No (if yes, fill in transfer credit form) Resubmit revised outline for articulation: ☐ Yes ☒ No To find out how this course transfers, see **bctransferguide.ca**.

Total Hours: 45 Typical structure of instructional hours:	Special Topics
	Will the course be offered with different topics? ☐ Yes ☒ No

Lecture hours	30
Seminars/tutorials/workshops	
Laboratory hours	15
Field experience hours	
Experiential (practicum, internship, etc.)	
Online learning activities	
Other contact hours:	
Total	**45**

Special Topics
If yes, different lettered courses may be taken for credit:
☐ No ☐ Yes,   repeat(s) ☐ Yes, no limit

Note: The specific topic will be recorded when offered.

Maximum enrolment (for information only): 27

Expected frequency of course offerings (every semester, annually, every other year, etc.): Annually

Department / Program Head or Director: Amanda McCormick	**Date approved:**	July 27, 2017
Faculty Council approval	**Date approved:**	November 8, 2017
Campus-Wide Consultation (CWC)	**Date of posting:**	February 9, 2018
Dean/Associate VP: Jacqueline Nolte	**Date approved:**	November 8, 2017
Undergraduate Education Committee (UEC) approval	**Date of meeting:**	February 23, 2018

Learning Outcomes

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

- Apply the logic of scientific enquiry to statistical testing of hypotheses;
- Empirically measure theoretical concepts through use of multiple indicators and creation of indexes;
- Critically evaluate and integrate prior research on a specific criminological problem;
- Design testable research hypotheses;
- Use SPSS to work with data; and
- Statistically analyze data to answer quantitative research hypotheses.

Prior Learning Assessment and Recognition (PLAR)

☒ Yes ☐ No, PLAR cannot be awarded for this course because

Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Lectures and computer labs

Grading system: Letter Grades: ☒   Credit/No Credit: ☐   Labs to be scheduled independent of lecture hours: Yes ☐   No ☐

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

Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)

	Author (surname, initials)	Title (article, book, journal, etc.)	Current ed.	Publisher	Year
1.	Babbie, E., Halley, F. S., Wagner, W. E., and Zaino, J.	Adventures in Social Research: Data Analysis Using IBM SPSS Statistics	☑	Sage Publications, Inc.	2016
2.	Bachman, R. and Paternoster, R.	Statistical Methods for Criminology and Criminal Justice	☑	McGraw Hill	2009
3.	Champion, D. J., and Harley, R. D.	Statistics for Criminal Justice and Criminology	☑	Pearson Education, Inc.	2010
4.	Nardi, P.	Interpreting Data	☐	Pearson Allyn and Bacon	2006

Typical Evaluation Methods and Weighting

Final exam:	30%	Computer Lab Assignments: 45%	Midterm exam:	25%	Total:	100%

Details (if necessary):

Typical Course Content and Topics

Lecture Outline
Week 1: Introduction to the course
Week 2: Overview of quantitative research
Week 3: Descriptive statistics
Week 4: Normal distribution and standard scores
Week 5: Probability theory and hypothesis testing
Week 6: Review for midterm
Week 7: Midterm
Week 8: Chi-square
Week 9: t-Test
Week 10: ANOVA
Week 11: Correlation
Week 12: Multiple Regression
Week 13: Review for Final

Lab Outline
Week 1: Introduction to SPSS
Week 2: Creating a database
Week 3: Describing and presenting data
Week 4: Assignment work
Week 5: Recoding data
Week 6: Creating composites and indexes
Week 7: Chi-square
Week 8: Assignment work
Week 9: t-Test
Week 10: ANOVA
Week 11: Correlation
Week 12: Multiple Regression
Week 13: Assignment work