

### Course Outline

<b>COURSE:</b>	<b>CRCJ 3001 A: Quantitative Methods in Criminology</b>
<b>TERM:</b>	<b>Fall 2024</b>
<b>PREREQUISITES:</b>	CRCJ 1000 and third-year standing in the B.A program in Criminology and Criminal Justice.
<b>CLASS:</b>	<b>Day &amp; Time:</b> Mondays, 6:05 pm – 8:55 pm
	<b>Room:</b> Please check Carleton Central for current room location.
<b>INSTRUCTOR:</b>	<b>Tanvir Quadir</b>
<b>CONTACT:</b>	<b>Office:</b> All office hours will be ONLINE
	<b>Office Hrs:</b> Wednesdays, 5:00 – 6:00 pm (Zoom)
	<b>Email:</b> TanvirQuadir@cunet.carleton.ca

Link to Brightspace page: [Homepage - CRCJ3001A Quantitative Methods in Crimin \(LEC\) Fall 2024 \(carleton.ca\)](#)

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Before emailing a question, please *fully* read this syllabus and explore the associated resources. The answers to many questions can be found in this document and students may be referred back to the syllabus if the answer is already available. Please allow at least **two (2) business days** for responses to inquiries before pursuing another route of communication.

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#### TA:

Name	Email	Office Hours	Responsibilities
Kaira Theos	<a href="mailto:kairatheos@cmail.carleton.ca">kairatheos@cmail.carleton.ca</a>	TBA	Grade Assignments/Exams, Office Hours
Tayla Snache	<a href="mailto:TaylaSnache@cmail.carleton.ca">TaylaSnache@cmail.carleton.ca</a>	TBA	Grade Assignments/Exams, Office Hours
Jordan Mclean	<a href="mailto:JordanMclean@cmail.carleton.ca">JordanMclean@cmail.carleton.ca</a>	TBA	Grade Assignments/Exams, Office Hours

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## **ACKNOWLEDGEMENT & AFFIRMATION**

### **ANISHNABE**

Ni manàdjiyànànig Màmìwininì Anishinàbeg, ogor kà nàgadawàbandadjig iyo akì eko weshkad. Ako nongom egawìkàd kì mìgiwewàdj.

Ni manàdjiyànànig kakina Anishinàbeg ondaje kaye ogor kakina eniyagizidjig enigokamigàg Kanadàng ejiondàpinangig endàwàdjìn Odàwàng.

Ninisidawinawànànig kenawendamòdjig kije kikenindamàwin; weshkinìgidjig kaye kejejàdizidjig.

Nigijeweninmànànig ogor kà nìgànì sòngideyedjig; weshkad, nongom; kaye àyànikàdj.

### **ENGLISH**

We pay respect to the Algonquin people, who are the traditional guardians of this land. We acknowledge their longstanding relationship with this territory, which remains unceded.

We pay respect to all Indigenous people in this region, from all nations across Canada, who call Ottawa home.

We acknowledge the traditional knowledge keepers, both young and old.

And we honour their courageous leaders: past, present, future.

## **COURSE DESCRIPTION**

Methods used for conducting quantitative research. Topics include measuring and manipulating variables, reliability, validity, sampling, experimental, quasi-experimental designs, and ethics.

## **LEARNING OUTCOMES**

By the end of this course, students should be able to:

- Understand and apply core concepts of quantitative analysis in criminology, including variables and level of measurement, graphs and charts for qualitative and quantitative variables, measures of centre and variability, sampling, reliability and validity, statistical significance, experimental designs, and correlation.
- Build capacity to assess the methodological choices and perform data analyses using statistical package SPSS.

## **TEXTS (REQUIRED)**

- *Essentials of Statistics for the Behavioral Sciences* by Gravetter, F. J., & Wallnau, L. B., 9<sup>th</sup> or 10<sup>th</sup> edition, Thompson Wadsworth. (ES)
- *Research Methods for the Behavioral Sciences*, Gravetter, F. J., & Forzano, L.A. B. (2018). (6<sup>th</sup> ed.). Wadsworth-Cengage Learning. (RM)

**EVALUATION**

<b>Assessment Type</b>	<b>Expected Date</b>	<b>Weight</b>
Midterm Examination (One) (In Person)	<u>Midterm</u> : Monday, October 28, 2024 (Week 1-4) from 6:05 – 7:35 p.m.	25%
Assignments (Two) (Virtual at Brightspace)	<u>Assignment 1</u> : Due on Wednesday, October 16, 2024 (Week 1 – 4) <u>Assignment 2</u> : Due on Tuesday, December 3, 2024 (Week 5 – 9)	15%
Quizzes (Three) (Virtual at Brightspace)	<u>Quiz 1</u> : Due on Thursday, October 3, 2024 (Week 1 - 3) <u>Quiz 2</u> : Due on Thursday, November 7, 2024 (Week 4 – 6) <u>Quiz 3</u> : Due on Thursday, December 5, 2024 (Week 7 – 11)	15%
Final Examination (One) (In Person)	Between December 9 - 21, 2024 (Week 5 – 11) (TBA by the Registrar Office)	35%
Article Critique	Due on Thursday, November 21, 2024	5%
Attendance		5%

Each student's grade in the course will be calculated as a weighted average of scores for one mid-term examination (25%), two take-home assignments (15%), three quizzes (15%), a final examination (35%), article critique (5%) and attendance (5%). Important guidelines pertaining to the evaluation instruments are the following:

**MIDTERM EXAMINATION (25%):** Midterm examination will be held in class on Monday, October 28, 2024, 6:05 – 7:35 pm (during class time). The midterm examination is closed-book.

**ASSIGNMENT (15%) – DUE ON ASSIGNED DATES:** There will be two assignments, each counting equally toward the term mark. Only one pdf file (either typed or hand-written answers) needs to be uploaded at the Brightspace. No email submissions will be accepted. Students must work independently on assignments and write up his/her own assignment but may seek guidance/direction from the professor.

**QUIZZES (15%) – DUE ON ASSIGNED DATES:** There will be three VIRTUAL quizzes (based on multiple-choice questions) to be completed at Brightspace. The quizzes will be available from 8 am to 11:59 pm at Brightspace on the due date. Practice quizzes will also be made available at Brightspace before the due dates which will simulate the quiz environment and quiz type questions.

*FINAL EXAMINATION (35%)*: The 3-hour final examination will take place IN PERSON during the official final examination period of December 9 to 21, 2024, and is scheduled by the Office. Please do not make travel plans prior to December 21, 2024. **Please note that the maximum weight of the final exam MUST NOT exceed 60% of the final grade in case you miss any evaluation component (midterm or assignment or quiz) and weights are moved to the final exam weight based on documented medical reason.**

*ARTICLE CRITIQUE (5%)*: You will be given a journal article in the field of Criminology and Criminal Justice. Your task will be to summarize/critique the article: research question, methodology, limitation, and the results presented by the author(s). The article critique must be submitted to Brightspace in a single PDF file in no more than 2 pages maximum. The journal article will be released approximately two weeks prior to the deadline.

*ATTENDANCE (5%)*: Attendance will be taken at the end of classes.

### **ADDITIONAL COURSE POLICIES:**

1. Concerns about grading on any assignment or exam must be brought to my attention within three business days of the completion of grading.
2. Students who need to miss an assignment submission or an exam for a valid reason must complete and submit the Academic Consideration for Coursework Form ([Academic Consideration for Coursework Form - Registrar's Office \(carleton.ca\)](#)) no later than 24 hours after the submission deadline. In the case of an assignment or the midterm exam, the form must be submitted to the instructor. In the case of the final exam, a deferral request must be submitted to the Registrar's Office ([Defer an Exam - Registrar's Office \(carleton.ca\)](#)). For a missed assignment or midterm exam or quiz, the weight of the assignment/midterm exam/quiz will be added to the weight of the final exam. Deferred final exam scheduling is at the discretion of the University. NOTE: You cannot defer a deferred exam.
3. **Late Assignment Policy:** All assignments are to be submitted by their due date and time. All late submissions will be immediately docked 5%, with an additional 5% for each subsequent day late to a maximum of 3 days, *including weekends*. **After 3 days all outstanding assignments will be given a zero (0%) grade.** The Faculty reserves the right to accept or refuse the reason; **reasons such as travel, jobs, or any misreading of the examination timetable are not acceptable.**
4. **Attendance Policy: Students MUST attend the lectures and solve weekly practice problems.** It is strongly believed that there is strong correlation between students' engagement and success in the course.
5. You must use your Carleton email account for all email communications. I am unable to respond to non-Carleton emails due to FIPPA (Freedom of Information and Protection of Privacy Act).
6. All assignments in the course will be submitted online. A document entitled Submission Instructions will be posted on the course page in Brightspace. Any submissions not following the Submission Instructions will not be accepted for credit.
7. Standing in a course is determined by the course instructor subject to the approval of the Faculty Dean. This means that grades submitted by the instructor may be subject to revision. No grades are final until they have been approved by the Dean. Final standing in courses will be shown by alphabetical

grades. The system of grades used, with corresponding grade points is:

Percentage	Letter grade	12-point scale	Percentage	Letter grade	12-point scale
90-100	A+	12	67-69	C+	6
85-89	A	11	63-66	C	5
80-84	A-	10	60-62	C-	4
77-79	B+	9	57-59	D+	3
73-76	B	8	53-56	D	2
70-72	B-	7	50-52	D-	1

### **COURSE CALENDAR (MAY BE ADJUSTED AS COURSE UNFOLDS)**

Week	Type	Date	Topics	Chapters
1	Lecture	Sept. 9	<i>Course Overview/Defining and Measuring Variables/Frequency Distributions</i>	Chapter 1 and 2 (ES)
2	Lecture	Sept. 16	<i>Central Tendency, Variability</i>	Chapter 3 and 4 (ES)
3	Lecture	Sept. 23	<i>z-score and Detection of Outliers</i> <i>Ethics in Research, Selecting Research Participants, Validity</i>	Chapter 5 (ES) Chapter 4, 5, 6 (RM)
4	Lecture	Sept. 30	<i>Probability</i>	Chapter 6 (ES)
5	Lecture	Oct. 7	<i>Introduction to Hypothesis Testing, Review for Midterm Exam</i> <i>Assignment 1 Due</i>	Chapter 8 (ES)
		Oct. 21 - 25	<i>Fall Break (No Class)</i>	
6	Midterm Exam	Oct. 28	<i>Midterm Exam (Week 1 – 4), Introduction to the t-statistic</i>	Chapter 9 (ES)
7	Lecture	Nov. 4	<i>The t Test for Two Independent Samples</i>	Chapter 10 (ES)
8	Lecture	Nov. 11	<i>The t Test for Dependent Samples</i>	Chapter 11 (ES)
9	Lecture	Nov. 18	<i>Experimental Design: Introduction to Analysis of Variance (Between Subject Design)</i>	Chapter 12 (ES)
10	Lecture	Nov. 25	<i>Correlation, Simple Linear Regression</i>	Chapter 14 (ES)
11	Lecture	Dec. 2	<i>Multiple Linear Regression</i> <i>Assignment 2 Due</i>	
12	Lecture	Dec. 6	<i>Review for Final Exam</i>	

## **PLAGIARISM**

The University Academic Integrity Policy defines plagiarism as “*presenting, whether intentionally or not, the ideas, expression of ideas or work of others as one’s own.*” This includes reproducing or paraphrasing portions of someone else’s published or unpublished material, regardless of the source, and presenting these as one’s own without proper citation or reference to the original source. Examples of sources from which the ideas, expressions of ideas or works of others may be drawn from include but are not limited to: books, articles, papers, literary compositions and phrases, performance compositions, chemical compounds, artworks, laboratory reports, research results, calculations and the results of calculations, diagrams, constructions, computer reports, computer code/software, material on the internet and/or conversations.

Examples of plagiarism include, but are not limited to:

- any submission prepared in whole or in part, by someone else, including the unauthorized use of generative AI tools (e.g., ChatGPT);
- using ideas or direct, verbatim quotations, paraphrased material, algorithms, formulae, scientific or mathematical concepts, or ideas without appropriate acknowledgment in any academic assignment;
- using another’s data or research findings without appropriate acknowledgement;
- submitting a computer program developed in whole or in part by someone else, with or without modifications, as one’s own; and
- failing to acknowledge sources through the use of proper citations when using another’s work and/or failing to use quotations marks.

The Associate Dean of the Faculty follows a rigorous [process for academic integrity allegations](#), including reviewing documents and interviewing the student, when an instructor suspects a violation has been committed. Penalties for violations may include a final grade of “F” for the course.

## **INTELLECTUAL PROPERTY**

Classroom teaching and learning activities, including lectures, discussions, presentations, etc., by both instructors and students, are copy protected and remain the intellectual property of their respective author(s). All course materials, including PowerPoint presentations, outlines, and other materials, are also protected by copyright and remain the intellectual property of their respective author(s).

Students registered in the course may take notes and make copies of course materials for their own educational use only. Students are not permitted to reproduce or distribute lecture notes and course materials publicly for commercial or non-commercial purposes without express written consent from the copyright holder(s).

## **STATEMENT ON STUDENT MENTAL HEALTH**

As a university student, you may experience a range of mental health challenges that significantly impact your academic success and overall well-being. If you need help, please speak to someone. There are numerous resources available both on- and off-campus to support you. Here is a link to information about all the resources, both on campus and off, that you may find helpful: <https://carleton.ca/wellness/>

### **Emergency Resources (on and off campus)**

- Suicide Crisis Helpline: call or text 9-8-8, 24 hours a day, 7 days a week.
- For immediate danger or urgent medical support: call 9-1-1

### **Carleton Resources**

- Mental Health and Wellbeing: <https://carleton.ca/wellness/>
- Health & Counselling Services: <https://carleton.ca/health/>
- Paul Menton Centre: <https://carleton.ca/pmc/>
- Academic Advising Centre (AAC): <https://carleton.ca/academicadvising/>
- Centre for Student Academic Support (CSAS): <https://carleton.ca/csas/>
- Equity & Inclusivity Communities: <https://carleton.ca/equity/>

### **Off Campus Resources**

- Distress Centre of Ottawa and Region: call 613-238-3311, text 343-306-5550, or connect online at <https://www.dcottawa.on.ca/>
- Mental Health Crisis Service: call 613-722-6914 or toll-free 1-866-996-0991, or connect online at <http://www.crisisline.ca/>
- Empower Me Counselling Service: call 1-844-741-6389 or connect online at <https://students.carleton.ca/services/empower-me-counselling-services/>
- Good2Talk: call 1-866-925-5454 or connect online at <https://good2talk.ca/>
- The Walk-In Counselling Clinic: for online or on-site service <https://walkincounselling.com>

## **ACADEMIC ACCOMMODATION**

Carleton is committed to providing academic accessibility for all individuals. You may need special arrangements to meet your academic obligations during the term. The accommodation request processes, including information about the Academic Consideration Policy for Students in Medical and Other Extenuating Circumstances, are outlined on the Academic Accommodations website:

<https://students.carleton.ca/course-outline/>