



## Course Outline

### **Sociology 3306B (section 530) Investigating the Social World: Quantitative Research**

#### **General Information**

Term: Winter

Year: FW22

Course Day and Time: Tuesdays, 8:30 - 10:30 am; Thursdays, 9:30 - 10:30 am

Course Location: BR 206

#### **Instructor Information**

Prof. E. Bell

E-mail: eabell@uwo.ca

Telephone: 519-432-8353 ext.28236

Office hours: Tuesdays and Thursdays, 10:30 - 11:30 am

Office location: 321 Ursuline Hall

#### **Course Description**

Mandatory for third-year Sociology students in an Honors Specialization. In this course students will learn to evaluate quantitative sociological research and gain hands-on experience carrying out and writing up a research project that investigates current social issues. Topics include: posing a research question, developing concepts and measures, and analyzing quantitative survey data.

#### **Prerequisite(s):**

Enrolment in an Honors Specialization or Honors Double Major in Sociology or Criminology with a minimum grade of 60% in Sociology 2205A/B and Sociology 2206A/B, or Social Work 2206A/B and Social Work 2207A/B. If not in an Honors Specialization or Honors Double Major, a minimum grade of 70% in Sociology 2205A/B and Sociology 2206A/B, or Social Work 2206A/B and Social Work 2207A/B is required.

**Note: Students will need a portable USB drive (“flash drive”) for the assignments in this course. A capacity of 256 MB is plenty.**

The philosophy to be followed in this course is:

I hear, and I forget.

I see, and I remember.

I do, and I understand. (Confucius, sometimes attributed to Xunzi)

Much of the learning for this course will take place through conducting your own research project

and completing a number of assignments. An important learning opportunity will come from the feedback you get from your fellow students and the instructor as you complete various stages of your research. You will receive guidance on how to do statistical analysis using SPSS software, which will be complemented by instruction on various statistical issues.

### **Teaching Methodology and Expectations of Students**

Students are expected to engage with the material in every class, and to complete the course requirements on time.

### **Required Course Materials**

Library reading #1, “Multivariate Relationships,” available on the OWL site under “Resources.”

Library reading #2, “Multiple Regression and Correlation,” available on the OWL site under “Resources.”

### **Learning Outcomes**

A number of lectures will be devoted to refreshing your memory on some basic statistical procedures that you learned in Sociology 2205A/B, and to an introduction to multivariate statistics. Instruction will be provided to help you learn how to conduct those statistical analyses using SPSS software.

### **Learning modules**

Several conceptual, statistical, and technical learning modules will be interspersed throughout the term to develop your skills in conducting and evaluating quantitative social research. These include:

1) Using SPSS software to create new variables using the Transform > Compute Variable function; specifying missing data; creating syntax files; creating variable and value labels; producing and interpreting basic descriptive statistics: mean, median, mode, standard deviation, standard error of the mean, skewness and kurtosis; basic graphing techniques: line graphs, histograms with normal curves superimposed; and using the Explore function to create confidence intervals for a mean and to test the significance of the difference between two sample means.

2) Discussion of basic causal models:

- a) independent effects
- b) spurious relationships
- c) suppressor variables
- d) chain relationships
- e) interaction effects

Assigned reading: Library reading #1, “Multivariate Relationships,” available on the OWL site under “Resources”.

3) Using SPSS software to recode variables and select cases (working with a subset of respondents); creating and interpreting two- and three-way contingency tables; producing and

interpreting the chi square statistic; and producing and interpreting measures of association for nominal and ordinal variables: lambda, gamma, Kendall's tau-b, and Spearman's rho.

4) Review of Pearson's  $r$ , simple (bivariate) regression, and one-way analysis of variance; introduction to multiple (linear) regression; use of "dummy" variables in regression; standardized and unstandardized regression coefficients.

Assigned reading: Library reading #2, "Multiple Regression and Correlation," available on the OWL site under "Resources".

5) Working with weighted samples.

6) Handling missing data: listwise versus pairwise deletion of missing cases.

### **Brescia Competencies**

Brescia courses are designed to develop students' competencies in a number of different areas (see [https://brescia.uwo.ca/about/competency\\_based\\_learning/index.php](https://brescia.uwo.ca/about/competency_based_learning/index.php)). This course is designed to create a learning environment in which you will develop your competency in:

1) **Critical thinking:** *The ability to engage in thinking characterized by the rational, informed, independent, and open-minded exploration of issues, ideas, and events before accepting or formulating a conclusion.*

We will focus on how to think analytically and statistically about the world around you, and how to evaluate empirical claims about the social world. You will gain experience in constructively criticizing published quantitative research, and in offering critiques of the ideas and research presented by your classmates.

2) **Inquiry and analysis:** *The ability to ask questions, examine issues, and reach informed conclusions by breaking down complex issues, exploring evidence, and describing relationships among persons, things, or events.* This is the major focus of this course.

You will learn valuable lessons in how to conduct your own inquiry into and quantitative analysis of a sociological topic of your own choosing. In particular, you will gain experience in using multiple linear regression to investigate your topic.

3) **Problem solving:** *The ability to create and execute a strategy to answer a question or achieve a goal. Includes being able to anticipate the consequence of a potential solution, select a strategy among several alternatives, and decide when an acceptable outcome has been reached.*

The first step in problem solving is identifying what the problem is. In social research, the identification of the problem to be solved often takes the form of posing a *research question*.

You will get some practice in formulating a research question, which you will then address by doing multivariate analyses of survey data and other related tasks throughout the term.

You will also learn how to use SPSS software to calculate and interpret statistics and thus how to use it to solve statistical problems.

4) **Communication:** *The ability to exchange information and meaning across cultures, space, and time appropriately and correctly. This competency includes oral, written, and interpersonal communication, and the ability to use current or innovative media.*

You will have an opportunity to communicate what your research question is and how it will be researched, to discuss how your results may be interpreted, and to indicate what the social and theoretical implications of your findings are.

5) **Self awareness and development:** *The ability to draw meaning, knowledge and value from honest and fair reflection and self-evaluation. Students are able to recognize their emotions and patterns of thinking, their impact on others, and make a commitment to personal growth.*

6) **Social awareness and engagement:** *The ability to respect and be open to diversity (e.g. cultural, religious, political) and social justice. Students take personal responsibility to actively engage in and contribute to creating positive change in local, regional, national, or global communities and societies.*

These competencies are enhanced by increasing your knowledge about the empirical world and how it may be researched and analyzed. To develop oneself and to become more socially aware and engaged, it helps to have some familiarity with quantitative research procedures that allow you to better understand certain aspects of yourself and society at large.

7) **Valuing:** *The ability to make decisions or choose actions based on the consistent application of principles expressing fundamental values that are accepted on account of reason or spiritual insight.*

An important part of developing this competency relates to the issue of how to conduct social research in an ethical manner. Also to be considered and discussed are the social justice implications of the research you will do.

### **Copyright and Intellectual Property**

PowerPoint lecture slides and notes, lists of readings, in-class activities, assignment guidelines, and other components of the course materials are typically the intellectual property of the instructor. Unauthorized reproduction through audio-recording, video-recording, photographing, sharing on social media, or posting on course-sharing websites is an infringement of copyright and is prohibited. Such action may be considered a Code of Conduct violation and lead to sanctions.

## Evaluation

Evaluation Breakdown:

Component	Weight	Deadline
The initial statement of your research question	5%	Tuesday, January 24
Computer assignment #1	10%	Thursday, February 2
Research proposal	25%	Thursday, February 16
Computer assignment #2	10%	Thursday, March 2
Computer assignment #3	10%	Thursday, March 23
Major research project	40%	Tuesday, March 28

## Academic Accommodation

For course components worth 10% or more of the total course grade, please see the Academic Policies and Regulations section below or consult the Academic Calendar.

### 2022-23 BRESCIA UNIVERSITY COLLEGE ACADEMIC POLICIES AND REGULATIONS

#### 1. POLICY REGARDING ACADEMIC ACCOMMODATION

The complete policy regarding Accommodation for Illness - Undergraduate Students can be found at

[https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page\\_135](https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_135)

Students who have long-term or chronic medical conditions which may impede their ability to complete academic responsibilities should seek Academic Accommodation through Student Accessibility Services

([https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page\\_10](https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_10)).

Personal commitments (e.g., vacation flight bookings, work schedule) which conflict with a scheduled test, exam or course requirement are **not** grounds for academic accommodation.

Students who experience an illness or extenuating circumstance sufficiently severe to temporarily render them unable to meet academic requirements may submit a request for academic consideration through the following routes:

1. For medical absences, submitting a **Student Medical Certificate (SMC)** signed by a licensed medical or mental health practitioner;
2. For non-medical absences, submitting **appropriate documentation** (e.g., obituary, police report, accident report, court order, etc.) to their Academic Advisor. Students are encouraged to contact their Academic Advisor to clarify what documentation is acceptable.

## Request for Academic Consideration for a Medical Absence

When a student requests academic accommodation (e.g., extension of a deadline, a makeup exam) for work representing 10% or more of the student's overall grade in the course, it is the responsibility of the student to provide acceptable documentation to support a medical or compassionate claim. All such requests for academic accommodation **must** be made through an Academic Advisor and include supporting documentation.

Academic accommodation for illness will be granted only if the documentation indicates that the onset, duration and severity of the illness are such that the student could not reasonably be expected to complete their academic responsibilities. Minor ailments typically treated by over-the-counter medications will not normally be accommodated.

The following conditions apply for students seeking academic accommodation on medical grounds:

1. Students must submit their Student Medical Certificate (SMC) along with a request for relief specifying the nature of the accommodation being requested no later than two business days after the date specified for resuming responsibilities. An SMC can be downloaded from [https://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/medicalform.pdf](https://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf);
2. In cases where there might be an extended absence or serious issue, students should submit their documentation promptly and consult their Academic Advisor for advice during their recovery period;
3. Whenever possible, students who require academic accommodation should provide notification and documentation in advance of due dates, scheduled tests or examinations, and other academic requirements;
4. Students **must** communicate with their instructors **no later than 24 hours** after the end of the period covered by the SMC to clarify how they will fulfil the academic expectations they may have missed during the absence;
5. Appropriate academic accommodation will be determined by the Dean's Office/Academic Advisor in consultation with the course instructor(s). Academic accommodation may include extension of deadlines, waiver of attendance requirements, arranging Special Exams (make-ups), re-weighting course requirements, or granting late withdrawal without academic penalty.

## 2. ACADEMIC CONCERNS

If you feel that you have a medical or personal challenge that is interfering with your work, contact your instructor and Academic Advisor as soon as possible. Problems may then be documented and possible arrangements to assist you can be discussed at the time of occurrence rather than on a retroactive basis. Retroactive requests for academic accommodation on medical or compassionate grounds are not normally considered.

If you think that you are too far behind to catch up or that your work load is not manageable, you should consult your Academic Advisor ([https://brescia.uwo.ca/enrolment\\_services/academic\\_advising/book\\_an\\_appointment.php](https://brescia.uwo.ca/enrolment_services/academic_advising/book_an_appointment.php)). If you consider reducing your workload by dropping one or more courses, this must be done by the appropriate deadlines; please contact your Academic Advisor or see the list of sessional dates in the Academic Calendar (<https://www.westerncalendar.uwo.ca/SessionalDates.cfm?SelectedCalendar=Live&ArchiveID=>).

You should consult with the course instructor and the Academic Advisor who can help you consider alternatives to dropping one or more courses. *Note that dropping a course may affect OSAP eligibility and/or Entrance Scholarship eligibility.*

### 3. ABSENCES

**Short Absences:** If you miss a class due to a minor illness or other problems, check your course outline for information regarding attendance requirements and make sure you are not missing a test or assignment. Cover any readings and arrange to borrow notes from a classmate. Contact the course instructor if you have any questions.

Please note that for asynchronous online courses, attendance or participation requirements may be different than for synchronous or in-person courses.

**Extended Absences:** If you have an extended absence, you should contact the course instructor and an Academic Advisor. Your course instructor and Academic Advisor can discuss ways for you to catch up on missed work, and arrange academic accommodations if appropriate and warranted.

It is important to note that the Academic Dean may refuse permission to write the final examination in a course if the student has failed to maintain satisfactory academic standing throughout the year or for too frequent absence from the class or laboratory ([https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=5&SelectedCalendar=Live&ArchiveID=#Page\\_64](https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=5&SelectedCalendar=Live&ArchiveID=#Page_64)).

### 4. SCHOLASTIC OFFENCES

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence at:

[https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page\\_20](https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_20).

Students are responsible for understanding the nature of and avoiding the occurrence of plagiarism and other academic offences. Note that such offences include plagiarism, cheating on an examination, submitting false or fraudulent assignments or credentials, impersonating a candidate, or submitting for credit in any course without the knowledge and approval of the instructor to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course in the University or elsewhere. Students are advised to consult the section on Scholastic Discipline for Undergraduate Students in the Academic Calendar.

If you are in doubt about whether what you are doing is inappropriate or not, consult your instructor, the Academic Dean's Office, or the Registrar. A claim that "you didn't know it was wrong" is not accepted as an excuse.

The penalties for a student guilty of a scholastic offence (including plagiarism) include refusal of a passing grade in the assignment, refusal of a passing grade in the course, suspension from the University, and expulsion from the University.

#### **Plagiarism:**

Students must write their essays and assignments in their own words. Whenever students take an idea or a passage from another author, they must acknowledge their debt both by using quotation

marks where appropriate and by proper referencing such as footnotes or citations. Plagiarism is a major academic offence.

All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com.

### **Computer-marked Tests/exams:**

Computer-marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating. Software currently in use to score computer-marked multiple-choice tests and exams performs a similarity review as part of standard exam analysis.

## **5. PROCEDURES FOR APPEALING ACADEMIC EVALUATIONS**

All appeals of a grade must be directed first to the course instructor. If the student is not satisfied with the decision of the course instructor, a written appeal is to be sent to the School Chair. If the response of the Chair is considered unsatisfactory to the student, they may then submit a written appeal to the Office of the Dean. If the student is not satisfied with the decision of the Dean, they may appeal to the Senate Review Board Academic (SRBA), if there are sufficient grounds for the appeal and if the matter falls within the jurisdiction of the SRBA. For information on academic appeals consult your Academic Advisor or see the Student Academic Appeals – Undergraduate in the Academic Calendar

[https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page\\_14](https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_14).

Note that final course marks are not official until the Academic Dean has reviewed and signed the final grade report for the course. If course marks deviate from acceptable and appropriate standards, the Academic Dean may require grades to be adjusted to align them with accepted grading practices.

## **6. PREREQUISITES**

Unless you have either the prerequisites for a course or written Special Permission from the Dean to enroll in it, you will be removed from the course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisite(s).

## **7. SUPPORT**

### **Support Services**

The Brescia University College Registrar's website, with a link to Academic Advisors, is at <http://brescia.uwo.ca/academics/registrar-services/>. Students can access supports through Brescia's



Student Life Centre (<http://brescia.uwo.ca/life/student-life/>) and Learning Development & Success at Western (<https://www.uwo.ca/sdc/learning/>).

### **Mental Health and Wellness**

Students may experience a range of issues that can cause barriers to your learning, such as increased anxiety, feeling overwhelmed, feeling down or lost, difficulty concentrating and/or lack of motivation. Services are available to assist you with addressing these and other concerns you may be experiencing. You can obtain information about how to obtain help for yourself or others through **Health & Wellness at Brescia**, [https://brescia.uwo.ca/student\\_life/health\\_and\\_wellness/index.php](https://brescia.uwo.ca/student_life/health_and_wellness/index.php) and **Health and Wellness at Western**, [http://uwo.ca/health/mental\\_wellbeing/index.html](http://uwo.ca/health/mental_wellbeing/index.html).

### **Sexual Violence**

All members of the Brescia University College community have a right to work and study in an environment that is free from any form of sexual violence. Brescia University College recognizes that the prevention of, and response to, Sexual Violence is of particular importance in the university environment. Sexual Violence is strictly prohibited and unacceptable and will not be tolerated. Brescia is committed to preventing Sexual Violence and creating a safe space for anyone in the Brescia community who has experienced Sexual Violence.

If you or someone you know has experienced any form of Sexual Violence, you may access resources at [https://brescia.uwo.ca/safe\\_campus/sexual\\_violence/index.php](https://brescia.uwo.ca/safe_campus/sexual_violence/index.php).

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Portions of this document were taken from the Academic Calendar, the Handbook of Academic and Scholarship Policy, and the Academic Handbook of Senate Regulations. This document is a summary of relevant regulations and does not supersede the academic policies and regulations of the Senate of the University of Western Ontario.

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