

1. Course Information

Course number: LIS 9802

Course name: Advanced Research Methods 2

Location: FIMS & Nursing Building 4110

Time: Tuesdays 9:00 – 11:50 a.m.

2. Instructor Information

Name: Isola Ajiferuke

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3. Course Description

Quantitative aspects of survey design: sampling methods and design of questionnaires.
Experimental research: experimental and quasi-experimental designs. Quantitative content analysis.
Review of descriptive statistical analysis techniques. Introduction to simple inferential statistical methods: hypothesis testing, tests of relationship between two variables, t-test, one-way ANOVA, factorial ANOVA, and multiple regression analysis. A survey of advanced statistical methods: factor analysis, principal component analysis, clustering, multidimensional scaling, log-linear analysis, logistic regression, ordinal regression, discriminant analysis, path analysis, and social network analysis. (Recommended for Preparation: 9004 'Research Methods and Statistics' or equivalent; Prerequisite: 9801: Advanced Research Methods 1)

We will be using IBM SPSS Statistics 28 through MyVlab (<http://myvlab.uwo.ca/>) for analyzing data.

4. Course Materials

Recommended Textbooks: -

- Conway, L.S. and Radford, M.L. (2021). **Research methods in library and information science**. 7th ed. Santa Barbara, California: Libraries Unlimited.
- Howell D. C. (2013). **Statistical Methods for Psychology**. 8th ed. Belmont, CA: Wadsworth Cengage Learning.

5. Methods of Evaluation

- (a) Quantitative content analysis (15%) (February 2023)
- (b) Questionnaire design – initial report (10%) (February 2023)
- (c) Descriptive statistics, Chi-square test and simple correlation assignment (15%) (March 2023)
- (d) T-test and one-way ANOVA test assignment (15%) (March 2023)
- (e) Non-parametric tests assignment (15%) (April 2023)
- (f) Questionnaire design – final report (30%) (April 2023)

6. Enrollment Restrictions

Enrollment in this course is restricted to graduate students in library and information science, as well any student that has obtained special permission to enroll in this course from the course instructor as well as the Graduate Chair (or equivalent) from the student's home program.

7. Statement on Academic 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 the following Web site:

http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_grad.pdf

8. Health/Wellness Services

Students who are in emotional/mental distress should refer to Mental Health@Western <http://www.uwo.ca/uwocom/mentalhealth/> for a complete list of options about how to obtain help.

9. Accessible Education Western (AEW)

Western is committed to achieving barrier-free accessibility for all its members, including graduate students. As part of this commitment, Western provides a variety of services devoted to promoting, advocating, and accommodating persons with disabilities in their respective graduate program.

Graduate students with disabilities (for example, chronic illnesses, mental health conditions, mobility impairments) are encouraged to register with Student Accessibility Services, a confidential service designed to support graduate and undergraduate students through their academic program. With the appropriate documentation, the student will work with both SAS and their graduate programs (normally their Graduate Chair and/or Course instructor) to ensure that appropriate academic accommodations to program requirements are arranged. These accommodations include individual counselling, alternative formatted literature, accessible campus transportation, learning strategy instruction, writing exams and assistive technology instruction.