

1. Course Information

Course number: LIS 9802

Course name: Advanced Research Methods 2

Location: FIMS & Nursing Building 4070

Time: Fridays 9:00 – 11:50 a.m.

2. Instructor Information

Name: Isola Ajiferuke

Office: FIMS & Nursing Building 4025

Phone: (519)661-2111, ext. 81364

E-mail: iajiferu@uwo.ca

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 25 through MyVlab (<http://myvlab.uwo.ca/>) for analyzing data.

4. Course Materials

Recommended Textbooks: -

- Conway, L.S. and Radford, M.L. (2017). **Research methods in library and information science**. 6th ed. Santa Barbara, California: Libraries Unlimited.
- Howell D. C. (2013). **Statistical Methods for Psychology**. 8th ed. Belmont, CA: Wadsworth Cengage Learning.
- Krippendorff, K. (2013). **Content analysis: an introduction to its methodology**. 3rd ed. Los Angeles, California: SAGE.
- Wildemuth, B.M. (2017). **Applications of social research methods to questions in information and library science**. 2nd ed. Santa Barbara, California; Denver, Colorado: Libraries Unlimited.

5. Methods of Evaluation

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

6. 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

Collaboration is inappropriate in this course. Penalties for inappropriate collaboration (with no plagiarism) could include any of the following: the grade on the assignment is divided equally among all the students who collaborated inappropriately; failure on the assignment; and in extreme case (such as when the assignment accounts for a high proportion of the course grade), failure in the course.

7. Support 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.