

School of Education

EDST5101
Advanced Quantitative Research
(formerly

STUDENT LEARNING OUTCOMES

Outcome		Assessment/s
1	Demonstrate an understanding of how to design a research study.	1, 2
2	Demonstrate an understanding of basic statistical techniques for the analysis of data.	1, 2
3	Demonstrate the ability to apply basic statistical techniques and interpret research results.	1, 2
4	Demonstrate the ability to report the method and results of an experiment.	2

GRADUATE ATTRIBUTES

Standard		Assessment/s
	Advanced disciplinary knowledge and practices	
1	Demonstrate an advanced understanding of the field of education as it relates to their specialist area of study, and the ability to synthesize and apply disciplinary principles and practices to new or complex environments.	1, 2

6. COURSE CONTENT AND STRUCTURE

Module	Lecture Topic	Field (2018) Textbook
Day 1 July 15 (Monday)	Introduction: Fundamentals of statistics Research design and statistical testing using: t-test	Chapters 1 & 10
Day 2 July 16 (Tuesday)	Research design and statistical testing using: Analysis of Variance	Chapter 12
Day 3 July 18 (Thursday)	Research design and statistical testing using: Correlation and Regression	Chapters 8 & 9
Day 4 July 19 (Friday)	Research design and statistical testing using: Exploratory Factor Analysis	Chapter 18

7. RESOURCES

Readings

Main Textbook

Field, A. (2018). *Discovering statistics using SPSS*. London; Sage.

Supplementary Textbook

Heiman, G. (2011). *Basic statistics for the behavioural sciences*. Belmont, CA: Wadsworth, Cengage Learning

Morgan, G., Leech, N., Gloeckner, G., & Barrett, K. (2011). *IBM SPSS for introductory statistics: Use and interpretation*. New York: Routledge.

Pallant, (2010). *SPSS Survival Manual: A Step by Step Guide to Data Analysis Using SPSS*. Allen & Unwin.

Further Readings

Copies of articles and book chapters will be provided during the lectures.

