

UNIVERSITY OF NAIROBI
COLLEGE OF HUMANITIES AND SOCIAL SCIENCES
INSTITUTE OF ANTHROPOLOGY, GENDER AND AFRICAN STUDIES
B. A. ANTHROPOLOGY

NAF 203: Introduction to Statistics for Social Sciences
Course Outline 2013/2014
Instructor: Khamati Shilabukha

Course Content

1. Introduction to statistics

- Definition of statistics
- Concepts in statistics
 - Data
 - Variables
 - Frequencies
 - Distributions
- Branches of statistics
- Uses of statistics
- Arraying data
- Frequencies and distributions
- Graphic and tabular presentation of data

2. Measurement

- Defining measurement
- Variables and their measurement in social science
- The nature and structure of measurement in social science
- Levels of measurement
 - Nominal measurement
 - Ordinal measurement
 - Interval measurement
 - Ratio measurement
- Validity and reliability
 - Different approaches to measuring validity
 - Different approaches to measuring reliability
 - Threats to validity and reliability

3. Measurement of central tendency and dispersion

- The arithmetic mean
- The weighted mean
- The median
- The mode
- Standard deviation
- Variance
- Range

4. sampling and sampling designs

- The concept of sampling
- Aims of sampling
- Population
- Sample statistics and population parameters
- Finite and infinite populations
- Sample designs
- Probability Sampling
 - Simple random sampling
 - Systematic sampling
 - Stratified sampling

- Cluster sampling
- Non-probability sampling
 - Convenience sampling
 - Purposive sampling
 - Snow-ball sampling
 - Quota sampling

5. Inferences

- The Concept of Probability
- Estimation of probability
 - Types of probability
 - Classical probability
 - Relative frequency of Occurrence
 - Subjective probability
- Hypotheses and assumptions
 - The strategy of testing hypotheses
 - Null and research hypotheses
 - Probability distributions
 - Binomial distributions
- Sampling distributions
- Measuring relationships in bivariate analysis
 - Spearman Rank order correlation
 - Pearson Product moment correlation
- Estimation
 - Point estimation
 - Interval estimation

References

Kidder, v. L. H. 1981

Research methods in social relations

Kolasa, B. J. 1995

Introduction to behavioural science for business

Lin, Nan 1976

Foundations of social science research

Frankfort-Nachmias and D. Nachmias

Research methods in the social sciences

Simon, J. L. and P. Burstein 1985

Basic research methods in social sciences

Pelto, P. J. and G. Pelto

Anthropological research: The structure of inquiry

Mode of Presentation

1. Lectures and class discussions and debates
2. A personal take home assignment on an area to be given will account for 20 Marks of the Continuous assessment Marks.
3. A sit-in Continuous Assessment Test will account for 10% of the total score.
4. A final examination will account for 70% of the total score
5. Students are encouraged to undertake wide reading from various sources that touch on gender and research.