

# RESEARCH METHODS - BIO304

## COURSE OUTLINE

### 1. INTRODUCTION AND ELEMENTS OF RESEARCH

The research process, study design (experimental and non-experimental), hypothesis setting and prediction, independent and dependent variables, cofounder, ethical issues in research.

Prof Idowu (4 weeks)

### 2. Collection of Data and analysis

Sources of data, samples and populations, sampling methods, sample size, coding of data and missing values. Frequency distribution and normal distribution. Charts. Data transformations. Measures of central tendency and measures of dispersion.

Dr Ekpo (4 weeks)

### 3. Report writing

Title construction, abstract construction, introduction, objectives, methodology, results and discussion, conclusion, reference citation and compilation, plagiarism and copy rights issues in research

Dr (Mrs) Kehinde (3 weeks)

Dr U. F. Ekpo  
Course Coordinator