**BBS 3218 Principles of molecular biology**

**Course description**

This course introduces participants to the principles of molecular biology. This is largely a practical course with most of the time spent in the laboratory.

**Course Objectives**

* To describe the principles of molecular biology.

**Learning outcomes:**

At the end of the course students will be able use a microscope to study cell structures.

**Content outline**

Molecular methods

* + Separataion and purification
  + Analystical techiniques
  + Structural studies
  + Experimental techiniques
* Control mechanisms at other levels
  + Hormones
  + Post transcriptional modifications
  + Splicing mechanisms
  + Post translational mechanisms
  + Mechanisms of recombination, transposition, transformation.
    - Mobile genetic elements, Transposons, Insertions
    - Insertion sequences

**Requirements:**

4 Weeks, 60 CH

**Mode of assessment**

Practical examination 40%

Final summative examination 60%