

**At the completion of the course, students will be able to:**

- 1- Organize and display data using tables and graphs.
- 2- Prepare frequency distribution tables for qualitative and quantitative data.
- 3- Construct bar graphs, histograms, and polygons for such data.
- 4- Calculate summary statistics (Included among these are)
  - (i) Measure of central tendency
  - (ii) Measure of dispersion
- 5- Calculate common probability distributions and apply those calculations  
solve problems based on biological studies
- 6- Make decisions about some characterizations of a population based on  
sample information.
- 7- Draw conclusions about the population from which the sample is taken.
- 8- Estimate population parameters from statistic which the sample was drawn.