



**College of Sciences
Academic Learning Compacts**

Statistics - B.S.

Discipline Specific Knowledge, Skills, Behavior and Values

1. Students will demonstrate an understanding of probability and distribution theory.
2. Students will identify and carry out statistical procedures such as regression analysis and analysis of variance.
3. Students will convert raw data into a form which lends itself to statistical investigation.
4. Students will identify and employ computer software to analyze numerical and categorical data.
5. Students will design appropriate methodology for collecting data.
6. Students will know the meaning of broadly used statistical terms.
7. Students will effectively communicate statistical results and recommendations in writing.
8. Students will effectively communicate statistical results and recommendations orally.

Critical Thinking

1. Students will demonstrate an understanding of probability and distribution theory.
2. Students will identify and carry out statistical procedures such as regression analysis and analysis of variance.
3. Students will convert raw data into a form which lends itself to statistical investigation.
4. Students will identify and employ computer software to analyze numerical and categorical data.
5. Students will design appropriate methodology for collecting data.
6. Students will know the meaning of broadly used statistical terms.

Communication

1. Students will effectively communicate statistical results and recommendations in writing.

2. Students will effectively communicate statistical results and recommendations orally.

Assessment of Statistics - B.S. Outcomes

These outcomes will be assessed using a variety of assessment methods, including:

- **Tests/exams**
- **Projects**
- **Presentations**