# STUDENT LEARNING OUTCOMES

## COLLEGE OF SCIENCES
## MATHEMATICS - B.S.

### Discipline Specific Knowledge, Skills, Behavior and Values

1. Students will master the effective use of mathematical logic and techniques of formal proof.
2. Students will write correct formal proofs of concepts of mathematical structures.
3. Students will apply the definition of function in mathematics, particularly as applied to proofs involving basic properties of functions.
4. Students will produce proofs and arguments using good mathematical writing.

### Critical Thinking

1. Students will master the effective use of mathematical logic and techniques of formal proof.
2. Students will write correct formal proofs of concepts of mathematical structures.
3. Students will apply the definition of function in mathematics, particularly as applied to proofs involving basic properties of functions.
4. Students will produce proofs and arguments using good mathematical writing.

### Communication

1. Students will master the effective use of mathematical logic and techniques of formal proof.
2. Students will write correct formal proofs of concepts of mathematical structures.
3. Students will apply the definition of function in mathematics, particularly as applied to proofs involving basic properties of functions.
4. Students will produce proofs and arguments using good mathematical writing.

### Assessment of Mathematics - B.S. Outcomes

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

- Tests
- Projects
- Problem finding and solving
- Papers