

Mathematics BS Student Learning Outcomes

Objective 1: Demonstrate knowledge of fundamental concepts of mathematics.

Outcome 1.1: Students will demonstrate knowledge and understanding of Number and Quantity, Algebra, Functions and Calculus.

Outcome 1.2: Students will demonstrate knowledge and understanding of Geometry, Probability and Statistics and Discrete Mathematics.

Objective 2: Demonstrate critical thinking and quantitative skills through problem solving and reasoning proficiency.

Outcome 2.1: Students will demonstrate their ability to apply mathematical reasoning.

Outcome 2.2: Students will demonstrate analytical and critical thinking skills evidenced by their ability to weigh evidence, facts, and ideas, and draw conclusions.

Objective 3: Demonstrate written and oral communication skills.

Outcome 3.1: Students will formulate and support a thesis through accurate evidence and documentation.

Outcome 3.2: Students will research, collect, and assess scholarly information.

Outcome 3.3: Students will present written information clearly, logically, and critically.

Outcome 3.4: Students will create an audience-appropriate document that exhibits clarity and organization and serves the intended purpose.

Objective 4: Understand ethical, cultural, and global issues as they relate to the study and practice of mathematics.

Outcome 4.1: Students will demonstrate knowledge and understanding of ethical issues.

Outcome 4.2: Students will demonstrate knowledge and understanding of cultural, societal, global, and human diversity.

Objective 5: Demonstrate ability to use technology effectively including that associated with the field of mathematics and its applications.

Outcome 5.1: Students will demonstrate their proficiency in the use of math software applications and calculator.