Mathematics Program Assessment Plan

In consideration of our responsibility for delivering a high-quality program in mathematics and computer science that is consistent with the mission and goals of the institution, we have developed the following program-level goals:

1. Students will effectively communicate topics in the mathematical sciences.
2. Students will formulate, analyze, and solve a wide variety of problems in the mathematical sciences.
3. Students will engage in a lifelong learning process via the ability to self-educate.
4. Students will demonstrate proficiency with the topical content and techniques included in the courses in the mathematical sciences.

The following program-level student learning outcomes will be assessed on an annual basis and will serve as the primary means of determining whether the program-level goals are being achieved:

Goal #1 student learning outcomes:
   A) Students will effectively communicate topics related to the mathematical sciences in written form.
   B) Students will effectively communicate topics related to the mathematical sciences in oral form.

Goal #2 student learning outcomes:
   A) Students will recognize problem solving techniques appropriate to a given situation, including the development of mathematical models, the identification of assumptions, the understanding of the limitations of models, and the use of both graphical and numerical methods.
   B) Students will use technology in an appropriate manner to help understand, solve, and generalize problems.
   C) Students in computer science will be proficient in writing correct, well-designed, and well-documented object-oriented programs.

Goal #3 student learning outcomes:
   A) Students will recognize, understand, and analyze material related to the mathematical sciences from written sources.
   B) Students will demonstrate the ability to self-assess their academic growth.

Goal #4 student learning outcomes:
   A) Students will demonstrate an understanding of commonly used facts, formulas, terminology, and definitions.
   B) Students will write well-constructed and logically sound mathematical proofs.
   C) Students in computer science will be proficient in writing correct, well-designed, and well-documented object-oriented programs.