Department: Mathematics
Program Name: Mathematics-Liberal Arts
Program Level: Undergraduate
College: Arts and Sciences
Program: Major
Submitted by: Kathy Tomlinson
Title: Department Chair
Contact: kathy.tomlinson@uwrf.edu
Submission Date: November 29, 2016

Program Outcomes
Outcome 1: Apply fundamental concepts of algebra, calculus, and discrete mathematics to solve mathematical problems.
Outcome 2: Use mathematics from multiple areas to solve a mathematical problem.
Outcome 3: Read and interpret mathematical essays and valid mathematical proofs.
Outcome 4: Present mathematical ideas clearly both orally and in writing.
Outcome 5: Utilize technology appropriately in solving mathematical problems.
Outcome 6: Demonstrate a depth of knowledge in one area of mathematics.
Department: Mathematics

Program Name: Mathematics-Secondary Education

Program Level: Undergraduate

College: Arts and Sciences

Program: Major

Submitted by: Kathy Tomlinson

Title: Department Chair

Contact: kathy.tomlinson@uwrf.edu

Submission Date: November 29, 2016

Program Outcomes

Outcome 1: Apply fundamental concepts of algebra, calculus and discrete mathematics to solve mathematical problems.

Outcome 2: Use mathematics from multiple areas to solve a mathematical problem.

Outcome 3: Form an appreciation for mathematical habits of mind (CCSS - Mathematical Practice Standards) in themselves and be positioned to develop them with their students. Read and interpret mathematical essays and valid mathematical proofs.

Outcome 4: Present mathematical ideas clearly both orally and in writing.

Outcome 5: Integrate emerging technologies into lesson plans and instructional activities.

Outcome 6: Demonstrate a depth of knowledge in an area of mathematics that allows the graduate to connect ideas and concepts together.

Outcome 7: Present mathematical ideas using a variety of representations and models.

Outcome 8: Use different instructional strategies to engage students in active learning.

Outcome 9: Utilize a variety of assessment methods (formative and summative) to assess student understanding.

Outcome 10: Find, modify, and use appropriate resources for teaching units.
Outcome 11: Develop and implement tasks and activities that emphasizes rigor and coherence, as defined in the Common Core Math Standards.

Outcome 12: Form an appreciation for mathematical habits of mind (CCSS - Mathematical Practice Standards) in themselves and be positioned to develop them with their students.