Clarion University
Master of Education
with
Mathematics Education Concentration
Program Requirements

A. **Core Competencies – 12 credits**
   (Complete 4 courses)
   ED 520 Introduction to Research
   ED 522 Analysis of Teaching
   ED 523 Curriculum Development and Evaluation
   ED 578 Professional Seminar or MAED 556 Research in Mathematics Teaching and Learning\(^1\)

**Mathematics Specialization Courses – 18 credits**
Student to complete one of the following two tracks\(^2\)

1. **Secondary Education Track**
   (Complete 6 of 7 courses)
   MAED 511 – Technology for Teaching Secondary Mathematics
   MAED 532 – Teaching Statistical Reasoning
   MAED 537 – Geometry/Trigonometry for Secondary Teachers
   MAED 550 – Pre-Algebra for Teachers
   MAED 551 – Algebra/Number Theory for Secondary Teachers
   MAED 556 – Research in Mathematics Teaching and Learning
   MAED 571 – Analysis for Teachers
   MAED 590 – Historical Development of Mathematics

2. **Middle Level Education Track**
   (Complete 6 of 7 courses)
   MAED 511 – Technology for Teaching Secondary Mathematics
   MAED 532 – Teaching Statistical Reasoning
   MAED 537 – Geometry/Trigonometry for Secondary Teachers
   MAED 550 – Pre-Algebra for Teachers
   MAED 556 – Research in Mathematics Teaching and Learning
   MAED 581 – Problem Solving
   MAED 590 – Historical Development of Mathematics

B. **Mathematical Portfolio** – includes paper documenting research in the classroom, documentation of progress and change throughout program

Total 30 credits

\(^1\) MAED 556 can count in either section A or B but credits for the degree must total to 30

\(^2\) Students are required to take the track that aligns with their current teaching certification, though exceptions may be made dependent on a current or future teaching assignment.

*No Changes Since August 2017*