

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 Learning¹

Mathematics Specialization Courses – 18 credits

Student to complete one of the following two tracks²

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 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

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

²Students 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.