

II. Specialization Track – Choose one of the following tracks (12 credits)

High-School Track (all 4 courses must be completed)

1. MATH 500 – Foundations of Number Theory
2. MATH 502 – Applied Statistics
3. MATH 507 – Seminar: Algebra
4. MATH 508 – Seminar: Geometry

Middle-School Track (4 courses must be completed)

1. One of the following two courses:
 - a. MATH 541 – Conceptual Algebra for Teachers
 - b. MATH 555 – The Cartesian Triad: Algebra, Geometry and Coordinates in the Plane
2. MATH 503 – Data Analysis
3. MATH 566 – Geometry: From Euclid to Modern Day
4. One of the following two courses:
 - a. MATH 501 – Number Theory from a Multicultural and Historical Perspective
 - b. MATH 565 – Mathematical Modeling for Middle School Teachers

III. Approved Electives – Choose 2 of the following (for a total of 6 credits)

*Middle-School track: Suggested electives include:

- MATH 510 – Mathematical Reasoning
- MATH 520 – Middle-School Mathematics in a Teaching Context with Instructional Technology
- MATH 531 – Mathematics Connections for Secondary School Teachers

*High-School track: Suggested electives include:

- MATH 531 – Mathematical Connections for Secondary School Teachers
- MATH 551 – Analysis I
- MATH 561 – Abstract Algebra I
- MATH 580 – History of Mathematics

*Other electives include:

- *Any graduate-level course(s) in MATH
- *Any graduate-level course(s) in another science
- *EDUC 500 – Historical, Philosophical and Social Foundations of Education
- *EDUC 503 – Classroom Management
- *EDUC 508 – Seminar: Research in Human Development
- *EDUC 571 – Telecommunications in Education
- *EDUC 582 – Teaching Reading in Content Areas, Part I
- *EDUC 583 – Teaching Reading in Content Areas, Part II
- *EDUC 586 – Conflict Resolution and Peer Mediation
- *EDUC 587 – Cooperative Learning
- *EDUC 588 – Seminar: Educating Individuals with Disabilities
- *EDUC 619 – The Law and Public Education
- *EDUC 632 – Classroom Assessment
- *EDUC 689 – Multimedia in the Constructivist Classroom
- *EDLD 514 – Aligning Curriculum, Instruction, and Assessment