Program of Study

Some substitutions for the courses listed may be permitted with approval by the advisor. All substitutions must be made with the licensure requirements in mind.

Students who have completed education-related coursework as undergraduates may have already taken some of the courses listed below. Asterisks (*) appear next to courses that have typically already been completed by students whose undergraduate degree is in mathematics (education option) from the Virginia Tech Department of Mathematics.

Students should complete a minimum of 9 hours of education or approved mathematics courses and all mathematics coursework requirements for licensure prior to the early field experience (EDCI 5964). Students should complete all licensure requirements prior to student teaching.

Part I: Foundations (12 hours)

(1) EDCI 5234 Advanced Curriculum and Instruction: Elementary and Middle School Mathematics (3 SH)

(2) EDCI 4124* Psychological Foundations of Education (3 SH) or
    EDCI 5114* Advanced Educational Psychology (3 SH)

(3) EDCI 5104 Schooling in American Society (3 SH)

(4) EDCI 5784 Diversity and Equity in Mathematics Education (3 SH)

Part II: Research (3 hours)

EDCI 5784 Research in assessment and diagnosis in mathematics education (3 SH)

Part III: Professional Concentration (24 hours)

EDCI 5724 Teaching in Secondary Schools I: Mathematics (3 SH)
EDCI 5964 Field Studies in Education (early field experience) (3 SH)
EDCI 5744 Teaching in Secondary Schools II: Mathematics (3 SH)
EDCI 5754 Internship in Education (student teaching) (9 SH)
EDCI 5554* Educating Exceptional Learners Across the Lifespan (3 SH)
EDCI 5264* Comprehending Processes and Reading in the Content Areas (3 SH)

Part IV: Cognate (12 hours)

(1) MATH 4625* Mathematics for Secondary Teachers I (3 SH)
    MATH 4626* Mathematics for Secondary Teachers II (3 SH)
    MATH 4644* Secondary School Mathematics with Technology (3 SH)

Additional Licensure and Program Requirements

- Mathematics coursework required for licensure
- Passing score on VCLA (must be obtained prior to student teaching, required for Virginia licensure)
- Passing score on Praxis I or acceptable SAT or ACT scores (must be obtained prior to acceptance into program, required by Virginia regulations)
• Passing score on Praxis II (must be obtained prior to student teaching, required for Virginia licensure)
• Completion of Masters Degree Comprehensive Exam (Electronic Portfolio)

Virginia Tech Program of Study (30 hours)

Students who complete the undergraduate degree in mathematics (education option) from Virginia Tech Department of Mathematics should complete the program within three semesters (summer, fall and spring). Students who dual enroll during their senior year of their undergraduate studies will lessen their summer course load.

1. These students will come into the program with Part IV completed – 9 hours of mathematics. This reduces the program requirement to 39 hours.

2. These students will come into the program with 9 hours of education courses completed during their undergraduate program. Typically, these courses will be

   (1) EDCI 4124 Psychological Foundations of Education (3 SH) or
   EDCI 5114 Advanced Educational Psychology (3 SH)

   (2) EDCI 5554 Educating Exceptional Learners Across the Lifespan (3 SH)

   (3) EDCI 5264 Comprehending Processes and Reading in the Content Areas (3 SH)

When these courses are taken during the undergraduate program (and credits counted toward the undergraduate degree), the graduate program requirements are reduced to 30 hours.

3. Students should plan to enroll in 6 credit hours during the summer between the undergraduate and graduate programs.

Information for recently admitted students

The following education courses are generally offered during the spring and summer terms.

Spring Courses

- EDCI 4124 Psychological Foundations of Education (3 SH)
- EDCI 5104 Schooling in American Society (3 SH)
- EDCI 5114 Advanced Educational Psychology (3 SH)
- EDCI 5264 Comprehending Processes and Reading in the Content Areas (3 SH)
- EDCI 5554 Educating Exceptional Learners Across the Lifespan (3 SH)
- EDCI 5784 Research in assessment and diagnosis in mathematics education (3 SH)

Summer Courses

- EDCI 4124 Psychological Foundations of Education (3 SH)
- EDCI 5104 Schooling in American Society (3 SH)
- EDCI 5114 Advanced Educational Psychology (3 SH)
- EDCI 5234 Advanced Curriculum and Instruction: Elementary and Middle School Mathematics (3 SH)
- EDCI 5264 Comprehending Processes and Reading in the Content Areas (3 SH)
- EDCI 5554 Educating Exceptional Learners Across the Lifespan (3 SH)
- EDCI 5784 Research in assessment and diagnosis in mathematics education (3 SH)