CURRICULUM AND INSTRUCTION, SECONDARY EDUCATION MATHEMATICS CONCENTRATION (MAED IN CURRICULUM AND INSTRUCTION)

This program must be completed on a full-time basis.

Program of Study - Secondary Math Concentration

Course	Title	Hours
First Semester		
CRIN 541	Teacher, Schools & Community	3
EDUC F11	Social, Philosophical, Cultural, and Historical Foundations of Education [1]	3
EDUC F12	Advanced Educational Psychology and Development	3
CRIN 540	Teacher Inquiry for Equity & Inclusion	3
	Hours	**12**
Second Semester		
CRIN S03	Curriculum and Instructional Methods (Mathematics)	3
CRIN S05	Reading and Writing Across the Disciplines	3
CRIN S50	Introduction to the Characteristics of and Instructional Supports for Exceptional Students [1]	3
CRIN 521	ESL Curriculum Design: Teaching ELLs in the U.S.	3
CRIN S13	Clinical Experience in Secondary Schools (Mathematics)	3
	Hours	**15**
Third Semester		
CRIN S39	Curriculum Planning and Assessment (Mathematics)	3
CRIN S09	Classroom Organization, Management and Discipline (Secondary Education) [1]	3
CRIN L32	Internship in Supervised Teaching (Mathematics)	8
	Hours	**14**
	Total Hours	**41**

[1] If exempted from this course for any reason, the student must notify the Office of Teacher Education and complete a state mandated training module that is linked to this course.

Additional Graduation Requirements

Students are required to achieve passing scores on assessments prescribed by the Virginia Board of Education, both for program completion and for licensure. Virginia's mandated licensure assessments are graduation requirements.

CPR/AED/First Aid Training - Candidates seeking initial license in Virginia are required to complete training in cardiopulmonary resuscitation, the use of an automated external defibrillator, and first aid. Training courses are available through national emergency care organizations such as the American Heart Association and the American Red Cross. CPR training must include "hands-on" training. Evidence of certification must be presented when applying to the VDOE for licensure.

Endorsement Courses for Mathematics

Those students preparing to teach mathematics must fulfill the major requirements in the mathematics department. Within the major requirements, students need to complete 36 semester hours of coursework distributed in each of the following areas.

- Algebra. Experience shall include linear algebra (matrices, vectors, and linear transformations) and abstract algebra (ring, group, and field theory).
- Geometry. Experience shall include Euclidean and non-Euclidean geometries.
- Analytic geometry
- Probability and statistics
- Discrete mathematics. Experience shall include the study of mathematical properties of finite sets and systems and linear programming.
- Calculus. Experience shall include multivariable calculus.
- Mathematical modeling
- Computer science, including two programming languages