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

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

Program of Study - Secondary Science 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 S04	Curriculum and Instructional Methods (Science)	3
CRIN S05	Reading and Writing Across the Disciplines	3
CRIN S21	Seminar in Teaching	3
CRIN S50	Introduction to the Characteristics of and Instructional Supports for Exceptional Students [1]	3
CRIN S14	Clinical Experience in Secondary Schools (Science)	3
	Hours	**15**
Third Semester		
CRIN S41	Curriculum Planning and Assessment (Science)	3
CRIN S09	Classroom Organization, Management and Discipline (Secondary Education) [1]	3
CRIN L33	Internship in Supervised Teaching (Science)	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 Science

Biology - The teacher candidate shall have earned a baccalaureate degree and completed a major in biology or 32 semester hours in biology and at least one course in each of the following areas: genetics, biochemistry/molecular biology, cell biology, botany, zoology, anatomy/physiology, ecology, and evolutionary biology and other preparation consistent with the competencies for the endorsement.

Chemistry - The teacher candidate shall have earned a baccalaureate degree and completed a major in chemistry or 32 semester hours in chemistry, including at least one course in each of the following areas: inorganic chemistry, organic chemistry, physical chemistry, biochemistry, and analytical chemistry and other preparation consistent with the competencies required for the endorsement.

Earth Science - The teacher candidate shall have earned a baccalaureate degree and completed a major in Earth science, geology, or environmental science with a minimum of 32 semester hours in Earth sciences, including at least one course in each of the following areas: structural geology, petrology, paleontology, oceanography, meteorology, and astronomy/space science.

Physics - The teacher candidate shall have earned a baccalaureate degree and completed a major in physics or 32 semester hours in physics, including the following coursework: mechanics, electricity and magnetism, optics, and modern physics and other preparation consistent with the competencies required for the endorsement.