

SECONDARY EDUCATION (6-12), SECOND MAJORS

Code	Title	Hours
Freshman and Sophomore Years		
EDUC 301	Educational Psychology	3
EDUC 310	Social, Philosophical, Cultural & Historical Foundations of American Education	3
If EDUC 301 and EDUC 310 are not taken during freshman and sophomore years, they must be taken during the junior year.		
Fall		
EDUC 312	Characteristics of Exceptional Student Populations (Secondary)	3
EDUC 321	Clinical Experiences in Secondary Schools (English)	3
EDUC 441	Curriculum and Instructional Methods (English)	3
EDUC 460	Content Read/Writ	3
EDUC 371	ESL Curriculum Design: Teaching ELLs in the U.S.	3
Spring		
EDUC 311	Classroom Organization, Management, and Discipline ¹	3
EDUC 438	Curriculum Planning and Assessment in Secondary English	3
EDUC 495	Internship in Supervised Teaching (English)	6
Total Hours		33

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 Secondary English

In order to be licensed as a secondary English teacher (6-12) in Virginia, English majors shall receive a degree with a major in English or a minimum of 36 semester hours distributed in the following areas:

Literacy and reading - 12 semester hours with courses to include:

- Survey of British literature
- Survey of American literature
- World literature
- Literary theory and criticism

Language - 3 semester hours, to include the development and nature of the English language

Composition - 12 semester hours with experiences to include:

- A grammar course integrating grammar and writing
- The teaching of writing, based on current knowledge and most effective practices, including the use of technology for this purpose
- An advanced composition course emphasizing rhetorical practices of expository, persuasive, argumentative, and analytical writing
- Teaching research including ethical accessing, evaluating, organizing, crediting, and synthesizing information

Oral language - 3 semester hours, to include the teaching of public and presentation speaking, including nonverbal communication and the role of communication in small group and mass communication

Electives in English - 6 semester hours

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Fall		
EDUC 312	Characteristics of Exceptional Student Populations (Secondary)	3
EDUC 323	Clinical Experiences in Secondary Schools (Math)	3
EDUC 443	Curriculum and Instructional Methods (Mathematics)	3
EDUC 460	Content Read/Writ	3
EDUC 371	ESL Curriculum Design: Teaching ELLs in the U.S.	3
Spring		
EDUC 311	Classroom Organization, Management, and Discipline ¹	3
EDUC 439	Curriculum Planning and Assessment in Secondary Mathematics	3
EDUC 497	Internship in Supervised Teaching (Mathematics)	6
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Endorsement Courses for Secondary Math

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

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EDUC 324	Clinical Experiences in Secondary Schools (Science)	3
EDUC 444	Curriculum and Instructional Methods (Science)	3
EDUC 460	Content Read/Writ	3
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Endorsement Courses for Secondary Science

Students who wish to teach (1) Biology, (2) Chemistry, (3) Earth Science (Geology), or (4) Physics must complete the teaching specialty requirements listed below.

Biology - The teacher candidate shall have earned a baccalaureate degree from William & Mary 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 from William & Mary 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 from William & Mary 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 from William & Mary 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.

(Note: Students completing the requirements for an endorsement in biology, chemistry, earth science or physics may be endorsed in a second area of science by completing a minimum of 18 semester hours in the second endorsement area in addition to the specific coursework for that area as specified above.)

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EDUC 312	Characteristics of Exceptional Student Populations (Secondary)	3
EDUC 320	Clinical Experiences in Secondary Schools (Social Studies)	3
EDUC 440	Curriculum and Instructional Methods (Social Studies)	3
EDUC 460	Content Read/Writ	3
EDUC 371	ESL Curriculum Design: Teaching ELLs in the U.S.	3
Spring		

EDUC 311	Classroom Organization, Management, and Discipline ¹	3
EDUC 447	Curriculum Planning and Assessment in Secondary Social Studies	3
EDUC 494	Internship in Supervised Teaching (Social Studies)	6
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Endorsement Courses for Secondary Social Studies

The following subject area coursework is required for the social studies endorsement:

1. A major in History or Government (or equivalent 33 semester hours)
 - a. 12 hours in Government - needed for a History major (coursework must include at least 3 hours of American government or politics)
 - b. 18 hours in History - needed for a Government major (coursework must include at least 6 hours of American or US History 3 credits in African American History)
2. 3 hours in Economics (micro or macro)
3. 3 hours in Human Geography
4. 3 hours in Non-Western History/Culture
5. 3 hours in Sociology
6. 3 hours in Anthropology