

BS: Concentration in Chemistry Education

The degree leads to state licensure to teach in Virginia. Apply for Undergraduate Path to Teacher Licensure after completing 60 hrs. with a cumulative GPA \geq 3.0.

MAJOR REQUIREMENTS (65 hours)

Credits

General Chemistry I and II	CHEM 211, 212 , 213, 214 (4,4)	8
Organic Chemistry I and II	CHEM 313, 314 (3,3)	6
Organic Chemistry Lab I	CHEM 315	2
Quantitative Chemical Analysis	CHEM 321	4
Physical Chemistry I	CHEM 331	3
Bioinorganic Chemistry	CHEM 446	3
General Biochemistry I	CHEM 463	4
Physical Chem. Lab I or Biochem. Lab	CHEM 336 or 465	2
Laboratory Instructional Methods	CHEM 470	3
CHEM In-depth elective	(see list for B.S. Chem)	3
Analytic Geometry and Calculus I	MATH 113- <i>or</i> - 123-124	4
Analytic Geometry and Calculus II	MATH 114	4
Statistics	STAT 250	3
Physics	PHYS 243-246 or 160-261	8
Cell Structure & Function	BIOL 213	4
Earth Science	GEOL 101	4

LICENSURE REQUIREMENTS* (21 hours)

Foundations of Secondary Education	EDUC 422	3
Human Development, Learning & Teaching	EDUC 372 ^a	3
Teaching Science in the Secondary School	EDCI 473	3
Advanced Methods of Teaching Science in Secondary School	EDCI 483	3
Literacy in the Content Areas	EDRD 419	3
Student Teaching in Education	EDCI 490 ^b	6

GENERAL EDUCATION (24 hours)

Written Communication	ENGH 101, 302 (3,3)	6
Oral Communication	COMM 100 or 101	3
Western Civilization/World History	HIST 100 or 125	3
Information Technology		3
Literature		3
Fine Arts		3
Global Understanding		3

ELECTIVES (10 Hours)

*EDCI 491 (2) is also required for licensure. ^aMeets the general education requirement in Social & Behavioral Sciences. ^bMeets the general education Synthesis requirement.

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