

Chemistry Major (B.S.) Secondary School Teaching Certification

Fall			Spring		
Freshman Year					
	Number	Cr		Number	Cr
Principles of Chemistry	CHEM-12100	4	Organic Chemistry	CHEM-22100	3
Topics in Chemistry and Biochem	CHEM-12000	1	Calculus II (2b)	MATH-11200	4
Calculus I (2b)	MATH-11100	4	Experimental Chemistry I (2a)	CHEM-12400	2
Writing Course ⁽¹⁾	WRTG-1xx00	4	(a foreign language II) ⁽²⁾ (3a, g)		3
(a foreign language I) ⁽²⁾ (3a, g)		3	Literacy Education	EDUC-10100	2
	Total	16		Total	14
Sophomore Year					
	Number	Cr		Number	Cr
Organic Chemistry	CHEM-22200	3	Quantitative Chemistry	CHEM-23200 ⁽¹⁾	3
Experimental Chemistry II	CHEM-22500	2	Experimental Chemistry III	CHEM-32400	3
Principles of Physics I (2a)	PHYS-11700	4	Principles of Physics II (2a)	PHYS-11800	4
Elements of Tutoring	EDUC-21910	3	Educational Psychology	PSYC-21010	3
Ed. Special Needs Children	SLPA-23900	2	Second Language Acquisition	SLPA-22900	2
	Total	14		Total	15
Junior Year					
	Number	Cr		Number	Cr
Physical Chemistry I	CHEM-33100	3	Physical Chemistry II	CHEM-33200	3
Inorganic Chemistry	CHEM-34200	3	Experimental Chemistry IV	CHEM-32500	3
Chemistry Elective (restricted)	CHEM-xxx00	3	Seminar	CHEM-48800	1
Chemistry Research	CHEM-39100	3	Elective (3b, h)		3
Social Found. of Ed. (1, h)	EDUC-34000	3	Elective (1, g)		3
	Total	15	Elective (1)		3
				Total	16
Senior Year					
	Number	Cr		Number	Cr
Seminar	CHEM-48700	1	Prof Semester in Teaching	EDUC-49810	12
Experimental Chemistry V	CHEM-32600	3	Practical Issues of Teaching	EDUC-41210	3
Pedagogy Across Disciplines	EDUC-30810	3		Total	15
Pedagogy – Science	EDUC-31010	3			
Technology Classroom Teach.	COMP-20100	2			
Biochemistry I	BIOC-35300	3			
	Total	15			

- 1) All students must complete WRTG-10800, or 11100, or 16400 and be certified as meeting the H&S writing effectiveness requirement.
 - 2) Equivalent of one year of foreign language is required for certification.
- ✓ A second year review during the second year in the teaching program is required.
 - ✓ A minimum 2.75 GPA in chemistry is required for the teaching option.
 - ✓ A minimum grade of B in EDUC-30810 and EDUC-31010 is required for student teaching.
 - ✓ Students must successfully complete all three sections of the New York State Teacher Certification Exam.

This curriculum meets the American Chemical Society degree certification requirements.

This curriculum meets the General Education requirements of the School of Humanities and Sciences.

This curriculum totals 120 credit hours.

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Calculus I (2b)	MATH-11100	4	Experimental Chemistry I (2a)	CHEM-12400	2
Writing Course ⁽¹⁾	WRTG-1xx00	4	(a foreign language II) ⁽²⁾ (3a, g)		3
(a foreign language I) ⁽²⁾ (3a, g)		3	Literacy Education	EDUC-10100	2
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Experimental Chemistry II	CHEM-22500	2	Experimental Chemistry III	CHEM-32400	3
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Inorganic Chemistry	CHEM-34200	3	Experimental Chemistry IV	CHEM-32500	3
Chemistry research	CHEM-39100	1	Seminar	CHEM-48800	1
Social Found. of Ed. (1, h)	EDUC-34000	3	Elective (3b, h)		3
Elective (3b, h)		3	Elective (1, g)		3
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