

BSEd in Chemistry

revision 1/2012

Successful completion of the courses listed below will entitle a person to receive the degree BSEd with a major in Chemistry and will lead to a certificate to teach Chemistry in the State of Missouri grades 9-12.

The following courses are the General Education requirements of Lincoln University and Missouri Department of Elementary and Secondary Education (DESE).

_____	GE 101	University Seminar	1
_____	ENG 101	Composition and Rhetoric I	3
_____	ENG 102	Composition and Rhetoric II	3
_____	SPT 206	Fundamentals of Speech	3
_____	PED ____	Activity Physical Education	1
_____	PED 111	Personal and Community Hygiene	2
_____	PSC 203	American National Government	3
_____	PSY 101	General Psychology	3
_____	_____	Humanities Requirement	3
_____	_____	Humanities Requirement	3
_____	HIS 205/206/220	A course in American History	3
_____	HIS 101/102	A Course in International History	3
_____	CD 200	Cultural Diversity in Modern America	3
_____	EDU 260	Education and Cultural Diversity (or other approved course)	3
_____	ECO 201/SOC 301/SA 201/SA 202		<u>3</u>
Total			40

**BSEd Chemistry majors may meet their General Education math requirement w/ MAT 123

Major Courses

_____	CHM 101	General Chemistry I	4
_____	CHM 102	General Chemistry II	4
_____	CHM 202	Quantitative Analysis	4
_____	CHM 301	Organic Chemistry I	3
_____	CHM 302	Organic Chemistry II	3
_____	CHM 303	Organic Chemistry Laboratory I	1
_____	CHM 304	Organic Chemistry Laboratory II	1
_____	CHM 306	Biological Chemistry	3
_____	CHM 307	Biological Chemistry Laboratory	1
_____	CHM 401	Physical Chemistry I	3
_____	CHM 402	Physical Chemistry II	3
_____	CHM 403	Physical Chemistry Laboratory I	1
_____	CHM 404	Physical Chemistry Laboratory II	1
_____	CHM 405	Inorganic Chemistry	4
_____	CHM 409	Chemistry Seminar	1
_____	CHM 410	Chemistry Seminar	1
_____	MAT 123	Analytic Geometry and Calculus I & Lab	5
_____	MAT 203	Analytic Geometry and Calculus II & Lab	5

_____	MAT 304	Analytic Geometry and Calculus III & Lab	5
_____	PHY 101/201	College Physics I/General Physics	4-5
_____	PHY 102/202	College Physics II/General Physics II	4-5
_____	PHY 103/104L	Earth Science & Lab	4
_____	PHY 105/106L	Astronomy & Lab	4
_____	BIO 103/104L	Principles of Biology	4
_____	BIO 105	Organismal Biology	4
_____	BIO 423	Ecology	4

OR

_____	ENV 103 & 104 L	Environmental Science with Lab	
_____	PHI 308	Philosophy of Science	<u>3</u>
Total			84-86

Pre-Professional Block I: (These courses must be taken concurrently.)

_____	EDU 202	Observation in Education	1
_____	EDU 204	Educational Psychology	3
_____	EDU 270	Instructional Technology	3
_____	SE 221	Introduction to the Exceptional Child	<u>2</u>
Total			9

Pre-Professional Block II: (These courses may be taken over several semesters.)

_____	EDU 406	School and Society	3
_____	EDU 322	Adolescent Development	<u>2</u>
Total			5

The following courses require that the student be admitted into the Teacher Education Program before registration:

Block III

_____	EDU 316	Techniques of Teaching	3
_____	EDU 420	Teaching Reading in the Content Area	<u>3</u>
Total			6

Block IV

_____	EDU 304	Paraprofessional Training	1
_____	EDU 417S	M/M/O: Teaching Science	2
_____	EDU 435	Classroom Management	<u>3</u>
Total			6

Block V

_____	EDU 474	Student Teaching in Grades 9-12	10
_____	EDU 475	Seminar in Student Teaching	<u>2</u>
Total			12

Overall Total 162-164

It is recommended that students add the middle school endorsement (grades 5-9):

_____	EDU 416	Reading and Writing in the Middle School	4
_____	EDU 460	Middle School Foundations	3
_____	EDU 461	Middle School Curriculum and Instruction	<u>2</u>
Total			9