



BSEd in Chemistry Education CORE 42 (Revised 1/21)

Name: _____ ID#: _____

Successful completion of the courses listed below, a successful admission score for the Educator Preparation Program (EPP), and the GPA requirements (**2.75 overall; 3.0 in content area & professional education coursework**) will entitle a person to receive the degree Bachelor of Science in Education (BSEd) with a major in Chemistry Education and may lead to a certification to teach grades 9 - 12 in the State of Missouri.

The following courses are the General Education CORE 42 requirements of Lincoln University. Those marked with an *, indicate that students must have a grade of "C" or better.

*For courses listed in this section with an **E**, students can choose an elective from the approved CORE 42 course list for that specific area or category (please see the CORE 42 General Education Advisement Worksheet). The courses listed in areas with an **E** are recommended based on preparing students for the state teacher certification assessments. See your advisor for more information on selecting a CORE 42 Elective.*

_____	ENG 101	Composition and Rhetoric I *	(1. Written Comm.)	3-4
_____	ENG 102	Composition and Rhetoric II *	(1. Written Comm.)	3
_____	SPT 206	Fundamentals of Speech *	(2. Oral Comm.)	3
_____	MAT ____	E: MAT 113/115/117/121	(3. Math Sciences)	3
_____	MATH 121	Pre-Calculus	(3. Math Sciences)	5
_____	BIO ____	BIO 103 Principles of Biology * or BIO 150 Biology I	(4. Natural Sciences)	3
_____	CHM 101	General Chemistry I * (FA/SP) (with CHM 101L)	(4. Natural Sciences)	4
_____	PHY 101	College Physics I (FA)* (with PHY 101L)	(4. Natural Sciences & Lab)	4
_____	PSY 101	General Psychology *	(5. Soc./Behv. Sciences)	3
_____	_____	Civics: HIS 205/206/PSC 203	(5. Soc./Behv. Sciences)	3
_____	_____	E: PSY 308, ECO 201/202, SA 201/202	(5. Soc./Behv. Sciences)	3
_____	_____	History: HIS 101/102	(6. Hum/Fine Arts)	3
_____	_____	E: PHI 101/102/201/203	(6. Hum/Fine Arts)	3
_____	_____	E: ART 100, MUS 200/205 SPT 209	(6. Hum/Fine Arts)	<u>3</u>
Total				46

The following courses are General Education Institutional Requirements of Lincoln University:

_____	EDU 260	Educational and Cultural Diversity * (FA/SP)	(7. Institutional)	3
_____	GE 101	University Seminar (FA/SP)	(8. Gen Ed Skills)	<u>1</u>
Total				4

Math Pre-Requisites for Physics:

Must be taken prior to semester 6

These courses are not reflected on the pathway

MATH 123 Calculus I (5)

MATH 203 Calculus II (5)

Required Chemistry Education Major Courses for Certification

Successful completion of the major area courses listed in the sections below with a C or better, and a 3.0 GPA is required for the BSEd candidates. All courses in the Pre-Professional Block I (plus EDU 260) must be completed prior to registering for courses in the Professional Blocks.

BIO 103, BIO 104, CHM 101, and PHY 101 are REQUIREMENTS of the Chemistry Education courses and should be calculated for the GPA of this section. These courses are listed in the General Education section on page 1.

_____	CHM 102	General Inorganic Chemistry II (FA/SP) (with CHM 102 L)	4
_____	CHM 202	Quantitative Analysis (SP) (with CHM 202L)	4
_____	CHM 301	Organic Chemistry I (FA) (with CHM 301L)	3
_____	CHM 302	Organic Chemistry II (SP)	3
_____	CHM 303	Organic Chemistry Laboratory I (TBA)	1
_____	CHM 304	Organic Chemistry Laboratory II (TBA)	1
_____	CHM 306	Biological Chemistry (FA)	3
_____	CHM 307	Biological Chemistry Laboratory (TBA)	1
_____	CHM 401	Physical Chemistry I (FA)	3
_____	CHM 403L	Physical Chemistry Laboratory I (FA)	1
_____	EDU 443	Hist & Philosophy of Science & Technology (SP)	3
_____	ENV 103	Intro to Environmental Science (FA/SP)	3
_____	PHY 103	Earth Science (FA/SP)	<u>3</u>
		Total	33

Required Education Courses

Successful completion of the courses listed below with a C or better, and a 3.0 GPA is required for the BSEd candidates. All courses in the Pre-Professional Block I (plus EDU 260) must be completed prior to registering for courses in the Professional Blocks.

Pre-professional Block I:

_____	EDU 202	Observations in Education (FA/SP)	1
_____	EDU 204	Educational Psychology (WAC) (FA/SP)	3
_____	EDU 251	Prof. Educator Legal/Ethical Issues (FA/SP)	3
_____	SE 221	Education of the Exceptional Child (FA/SP)	<u>3</u>
		Total	10

Pre-professional Block II:

_____	EDU 316	Techniques in Teaching (FA/SP)	3
_____	EDU 317	Differentiated Instruction (FA/SP)	3
_____	EDU 322	Psy. of Child & Adolescent Dev – Sec. (FA/SP)	3
_____	SE 350	Language Acquisition/ELL (FA/SP)	<u>3</u>
		Total	12

Professional Education Courses (Chemistry)

Students who apply and are accepted into the EPP in the Fall will take Block A the following Spring, then Block B in the fall. Students who apply and are accepted into the EPP in the Spring will take Block B the following fall, followed by Block A in the spring.

Professional Block A (Spring):

_____ EDU 304	Practicum in Secondary Education (FA/SP)	2
_____ EDU 325	Assessment & Data Driven Decision Making (FA/SP)	3
_____ EDU 420	Teaching Reading in the Content Area (SP)	<u>3</u>
	Total	8

Professional Block B (Fall):

_____ EDU 417S	M/M/O of Teaching Science (FA)	3
_____ EDU 429	Instructional Interventions for Students with Reading Deficits (FA)	3
_____ EDU 435	Classroom Management (FA/SP)	<u>3</u>
	Total	9

Student Teaching

Admission to the Educator Prep Program (EPP) should be completed after the successful completion of required EDU/SE courses and must be completed prior to student teaching placement. A qualifying score on the MoCA (MEGA) and all application materials must be submitted and approved prior to student teaching placement. Mathematics Education candidates will student teach a 16-week block at the secondary level.

Student Teaching Block

_____ EDU 475	Collaboration and Consultation in Educational Settings	2
_____ EDU 477	Student Teaching Secondary (EDU 474 can be substituted)	<u>10</u>
	Total	12
	Overall Total	132

Assessment Information:

ACT SCORE _____ **or MoGEA PASSED** _____

Overall GPA (2.75 req.) _____

Education GPA (3.00 req.) _____ **Chemistry GPA (3.00 req.)** _____

MoCA PASSED _____
(Test # 18)

Graduation/Certification Approvals:

Advisor: _____ **Date:** _____

Certification: _____ **Date:** _____

Dean: _____ **Date:** _____

BS EDUCATION: CHEMISTRY EDUCATION (9-12)
DEGREE PATHWAYS
CORE 42

Semester 1		Hrs.	Semester 2		Hrs.
GE 101	University Seminar	1	ENG 102	Composition & Rhetoric II	3
ENG 101	Composition & Rhetoric I	3-4	Area 3: Math	MAT 113/115/117/121	3
PSY 101	General Psychology	3	EDU 260	Ed. & Cultural Diversity	3
HIS 101/102	History	3	CHM 101	General Chemistry I	4
Area 6 Elective	ART 100, MUS 200/205 SPT 209	3	Area 5: Civics	HIS 205/206 or PSC 203	3
BIO 103/150	Principles of Biology/Biology I	3			
BIO 104 L	Biology Lab	1			
TOTAL:		17	TOTAL:		16

Semester 3		Hrs.	Semester 4		Hrs.
MAT 121	Pre-Calculus	5	EDU 202	Observations in Education	1
SPT 206	Fundamentals of Speech	3	EDU 204	Educational Psychology	3
CHM 102	General Inorganic Chemistry II	4	EDU 251	Prof. Educator Legal/Ethical Issues	3
ENV 103	Intro to Environmental Science	3	SE 221	Ed. of the Exceptional Child	3
Area 5 Elective	PSY 308, ECO 201/202, SA 201/202	3	PHY 101	College Physics (+PHY 101L)	4
			CHM 202	Quantitative Analysis (+102L)	4
TOTAL:		18	TOTAL:		18

Semester 5		Hrs.	Semester 6		Hrs.
EDU 316	Techniques in Teaching	3	EDU 304	Practicum in Secondary Education	2
EDU 317	Differentiated Instruction	3	EDU 325	Assessment & Data Driven Decision Making	3
EDU 322	Psy. of Child & Adolesc. Dev – Sec	3	EDU 420	Teaching Reading in the Content	3
SE 350	Language Acquisition/ELL	3	EDU 443	Hist & Phil of Science & Tech	3
CHM 301	Organic Chemistry I	3	CHM 302	Organic Chemistry II	3
CHM 303	Organic Chemistry I Lab	1	CHM 304	Organic Chemistry II Lab	1
Area 6 Elective	PHI 101/102/201/203	3	PHY 103	Earth Science	3
TOTAL:		19	TOTAL:		18

Semester 7		Hrs.	Semester 8		Hrs.
EDU 417S	M/M/O in Science	3	EDU 475	Collab/Consult. Ed. Setting	2
EDU 429	Inst. Interventions for Students with Reading Deficits	3	EDU 477	Student Teaching (Secondary)	10
EDU 435	Classroom Management	3			
CHM 306	Biological Chemistry	3			
CHM 307	Biological Chemistry Lab	1			
CHM 401	Physical Chemistry	3			
CHM	Physical Chemistry Lab	1			

TOTAL:		17	TOTAL:		12
---------------	--	-----------	---------------	--	-----------