



BSEd in Mathematics 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 Mathematics 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
_____	ENG 102	Composition and Rhetoric II *	(1. Written Comm.)	3
_____	SPT 206	Fundamentals of Speech *	(2. Oral Comm.)	3
_____	MAT 117	Elementary Statistics *	(3. Math Sciences)	3
_____	MAT 121	Pre-Calculus *	(3. Math Sciences)	5
_____	_____	E: ENV 103, PHY 103	(4. Natural Sciences)	3
_____	_____	E: BIO 100/103	(4. Natural Sciences)	3
_____	_____	E: Science Lab (BIO 104/ENV 104/PHY 104)	(4. Natural Sciences Lab)	1
_____	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)	3
_____	_____	E: CORE 42 Elective	(CORE 42)	<u>3</u>
Total				45

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

Required Mathematics 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.

_____ MAT 123	Analytic Geometry and Calculus I (FA/SP)	5
_____ MAT 203	Analytic Geometry and Calculus II (FA)	5
_____ MAT 304	Analytic Geometry and Calculus III (SP)	5
_____ MAT 315	Techniques of Mathematical Proofs (FA)	3
_____ MAT 403	Linear Algebra (FA)	3
_____ MAT 405	Applied Statistics (FA)	3
_____ MAT 406	History of Mathematics (SP)	3
_____ MAT 407	Modern Geometry (FA)	3
_____ MAT 409	Abstract Algebra (SP)	3
_____ MAT 461	Introduction to Mathematical Programming (FA)	<u>3</u>
	Total	36

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 (Math)

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 417M	M/M/O of Teaching English (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 136

Assessment Information:

ACT SCORE _____ **or MoGEA PASSED** _____

Overall GPA (2.75 req.) _____

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

MoCA PASSED _____
(Tests # 023)

Graduation/Certification Approvals:

Advisor: _____ **Date:** _____

Certification: _____ **Date:** _____

Dean: _____ **Date:** _____

BS EDUCATION: MATHEMATICS 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 4 Elective	Science (ENV 103/PHY 103)	3
PSY 101	General Psychology	3	Area 5: Civics	HIS 205/206 or PSC 203	3
HIS 101/102	History	3	MAT 117	Elementary Statistics	3-5
CORE 42	CORE 42 Elective	3	EDU 260	Ed. & Cultural Diversity	3
Area 6 Elective	ART 100, MUS 200/205 SPT 209	3			
TOTAL:		16	TOTAL:		15

Semester 3		Hrs.	Semester 4		Hrs.
SPT 206	Fundamentals of Speech	3	EDU 202	Observations in Education	1
BIO 100/103	Biology	3	EDU 204	Educational Psychology	3
BIO 104 L	Biology Lab	1	EDU 251	Prof. Educator Legal/Ethical Issues	3
Area 5 Elective	PSY 308, ECO 201/202, SA 201/202	3	SE 221	Ed. of the Exceptional Child	3
Area 6 Elective	PHI 101/102/201/203	3	MAT 123	Analytic Geometry & Calculus I	5
MAT 121	Pre-Calculus	3	MAT 407	Modern Geometry	3
TOTAL:		16	TOTAL:		19

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	MAT 304	Analytic Geometry & Calculus III	5
MAT 203	Analytic Geometry & Calculus II	5	MAT 406	History of Mathematics	3
MAT 315	Techniques of Math Proofs	3	MAT 409	Abstract Algebra	3
TOTAL:		20	TOTAL:		19

Semester 7		Hrs.	Semester 8		Hrs.
EDU 417M	M/M/O in Mathematics	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			
MAT 403	Linear Algebra	3			
MAT 405	Applied Statistics	3			
MAT 461	Into to Mathematical Programming	3			
TOTAL:		18	TOTAL:		12

Consider moving courses to the summer to make fall/spring term more manageable.