

Bachelor of Science in Education (BSE)

Chemistry (9-12)

Major Code ES04

CIP Code: 131205

Cr Hrs

General Education CORE 42 Requirements 42*		26
Area 1A	Social & Behavioral Sciences (PSY 100)	3
Area 1B	Civic Engagement	3
Area 2A	Written Communication	6
Area 2B	Oral Communication	3
Area 3A	Natural Science Non-Lab (BIO 102 or CHEM 140)	0
Area 3B	Natural science With Lab (PHYS 270 or GEOL 120)	0
Area 4	Mathematics (MATH 150)	0
Area 5A	Humanities	6
Area 5B	Fine Arts	3
Area 5C	Global Competencies(EDUC 280)	0
Area 5D	Health and Wellness	2
UE 100	First Year Experience**	1
Supporting Requirements (C or better)		20
EDUC 100	Introduction to Teacher Education I	3
MATH 150	Calculus and Analytical Geometry I*	5
MATH 250	Calculus with Analytical Geometry II	4
PHYS 290	General Physics II	4
PHYS 291	General Physics II Lab	1
PSY 100	General Psychology*	3
Professional Education (3.0 GPA/C or better)		33
EDUC 280	Education in a Global Society*	3
EDUC 302	Exceptional Child	2
EDUC 321	Microteaching#	1
EDUC 329	Pedagogical Theory, Methods & Practices#	4
EDUC 333	Teaching Science in Secondary Schools	3
EDUC 380	Theories of Teaching English as a 2nd Language	3
OR		
EDUC 480	Instructional Techniques for Teaching ELL (3)	
EDUC 422	Content Area Literacy I:Sec/Mid School	3
EDUC 423	Classroom Management#	3
EDUC 424	Content Area Literacy II: Sec/Mid School	3
EDUC 429	Assessment of Student Learning	3
EDUC 432	Critical Issues	2
PSY 310	Educational Psychology	3
Content Knowledge (3.0 GPA/C or better)		49
BIO 102	General Biology*	3
CHEM 140	General Chemistry I*	3
CHEM 141	General Chemistry I Lab*	1
CHEM 142	General Chemistry II	5
CHEM 201	Analytical Chemistry	5
CHEM 301	Organic Chemistry I	5
CHEM 302	Organic Chemistry II	5
CHEM 350	Biochemistry I	3
CHEM 400	Elementary Physical Chemistry	4
CHEM 431	Chemistry Lab Asst. Practicum	1
GEOL 120	Introduction to Geology*	4
GEOL 300	Environmental Geology	3
PHIL 420	Philosophy of Science	3
PHYS 270	General Physics I*	4
Field & Clinical Experience (3.0 GPA/C or better)		10
EDUC 462	Student Teaching	10
Testing		Passing Score of 220
MoCA	Missouri Content Assessment	
Total Hours	Must include at 39 upper division (300-400) hrs	139

*Gen. Ed. Core 42 Requirements: Area 1A 3 hrs met by PSY 100, Area 3A&B met by BIO 102 or CHEM 140 and PHYS 270 or GEOL 120 (6 hrs), Area 4 met by MATH 150, Area 5C met by EDUC 280 or IB 310(3 hrs)

ENG 250 suggested for 3 hrs of Area 5A

Junior Block courses