

## Bachelor of Science in Education

### Chemistry Secondary (9-12) .....Major Code ES04

#### General Education/Core 42 Requirements 42\* ..... 23

UE 100	First Year Experience**	1
BIO 102	General Biology* recommended	3
CHEM 140	General Chemistry I*	3
CHEM 141	General Chemistry I Lab*	1
ENG 250	Introduction to Literature* recommended	3
GEOL 120	Introduction to Geology* recommended	4
MATH 150	Calculus and Analytical Geometry I*	5
PSY 100	General Psychology*	3
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 300	Environmental Geology recommended	3
MATH 250	Calculus with Analytical Geometry II	4
PHIL 420	Philosophy of Science	3
PHYS 270	General Physics I*	4
PHYS 290	General Physics II	4
PHYS 291	General Physics II Lab	1
PSY 310	Educational Psychology	3
EDUC 100	Introduction to Teacher Education I	1
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 2 <sup>nd</sup> Language	3
OR		
EDUC 480	Instructional Techniques for Teaching ELL	.....
EDUC 422	Content Area Literacy I:Sec/Mid School	3
EDUC 423	Classroom Management#	3
EDUC 424	Content Area Literacy II:Sec/Mdle School	3
EDUC 432	Critical Issues	2
EDUC 462	Student Teaching	10

**Total** ..... **134**

\*Gen. Ed./Core 42 ENG 250 satisfies 3 hours of area 5A, MATH 150 satisfies area 4, PSY 100 satisfies 3 hours of area 1A, BIO 102 or CHEM 140 satisfy area 3A (3 hrs), PHYS 270 or GEOL 120 satisfies area 3B (4 hrs), EDUC 280 satisfies area 5C

\*\*Degree requirement H, may also be met by HNRS 101 (2 credit hours)

#Junior Block Courses – requires tentative admission and concurrent enrollment in EDUC 321, 329, 423

- All EDUC prefixed courses require a “C” or better
- Degree completion: cumulative GPA 2.75 or higher, cumulative content GPA 3.0 or higher. Missouri Content Assessment (MoCA). All other coursework completed. Approved background check

See Teacher Education department for additional requirements