

BACHELOR OF ARTS IN CHEMISTRY
Secondary Physical Science Teacher Certification (Grades 8- 12)

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Degree Program Name
Bachelor of Arts in Chemistry

Certification Type
8-12 Physical Science

Course #	Course Title	SCHs
CORE Curriculum Component		
ENGL 1301	Critical Thinking, Reading, and Writing I	3
ENGL 1302	Critical Thinking, Reading, and Writing II	3
ENGL/MODL	Literature or Modern Language Literature (any course)	6
HIST 1311	History of the United States	3
HIST 1312	History of the United States	3
POLS 2311	Government of the United States	3
POLS 2312	State and Local Government	3
MATH 1426	Calculus I	4
MATH2425	Calculus II	4
CHEM 1441	General Chemistry	4
CHEM 1442	General Chemistry	4
SOCIAL/CULTURAL STUDIES	Social and Cultural Studies, Communications, Economics, Health, Humanities, Cultural or Women's Studies (any course)	3
FINE ARTS	Art, Architecture, Dance, Music or Theatre Arts (any course)	3
Subtotal		46
Major Courses (lower division)		
CHEM 1441	General Chemistry	4*
CHEM 1442	General Chemistry	4*
CHEM 2321	Organic Chemistry	3
CHEM 2322	Organic Chemistry	3
CHEM 2181 / 2182	Organic Chemistry Laboratory	2
CHEM 2285	Quantitative Chemistry Laboratory	2
CHEM 2335	Quantitative Chemistry	3
PHYS 1443	General Technical Physics I	4
PHYS 1444	General Technical Physics II	4
PHYS 1445	Introductory Astronomy I	4
PHYS 2445	Electronics	4
Major courses (upper division)		
CHEM 3301	Introduction to Physical Chemistry	3
CHEM 3307	Introduction Polymer Chemistry	3
CHEM 3317	Inorganic Chemistry	3
CHEM 4101	Seminar in Chemistry	1
CHEM 4311	General Biochemistry	3
PHYS 3313	Intro to Modern Physics	3
PHYS 3445	Optics	4
Subtotal		49
Education and Reading courses		
EDUC 4341	Organization and Management of Instruction in Secondary Schools	3
EDUC 4342	Applications of Instruction in Secondary Classrooms	3
EDUC 4352	Teaching Diverse Populations	3
EDUC 4647	Secondary Teacher Preparation Residency with Technology Applications	6
EDML 4300	Pre-Adolescent/Adolescent Growth and Development	3
EDTC 4301	Technology Applications	3
READ 4343	Content Reading and Writing	3
Subtotal		24
Miscellaneous degree requirements		
MODL	Modern Language 2313 (any language courses)	3
Subtotal		3
Total		122

** indicates a course that has been counted previously in the CORE*