

# CHEMISTRY: SECONDARY TEACHER CERTIFICATION, BS

## Example Plan of Study

### Finish in Four Plan of Study

The plan below is an **example** of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
CHEM 1314	Chemistry I (LN)	4
MATH 2144	Calculus I (Q)	4
SMED 1012	Inquiry Approaches to Teaching	2
General Education courses		6
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIOL 1113 & BIOL 1111	Introductory Biology (N) and Introductory Biology Laboratory (LN)	4
CHEM 1515	Chemistry II (LN)	5
MATH 2153	Calculus II (Q)	3
General Education courses		4
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 3053	Organic Chemistry I	3
PHYS 1114	College Physics I (LN)	4
Major, College/Departmental, and Elective courses		8
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CHEM 3153	Organic Chemistry II	3
CHEM 3112	Organic Chemistry Laboratory	2
PHYS 1214	College Physics II (LN)	4
SMED 3013	Knowing and Learning in K-12 Education	3
General Education and College/Departmental courses		4
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
CIED 3313	Field Experience in the Secondary Schools	3
CHEM 2113	Principles of Analytical Chemistry	3
CHEM 2122	Quantitative Analysis Laboratory	2
SPED 3202	Educating Exceptional Learners	2
Major, College/Departmental, and Elective courses		6
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
CHEM 3353 or CHEM 3363	Descriptive Inorganic Chemistry or Bioinorganic Chemistry	3
CHEM 3353 and CHEM 3363 offered every other spring semester		
CHEM 3413	Physical Chemistry Applications	3
SMED 4611	Authentic Research in the Science Classroom	1
SMED 4613	Teaching the Nature of Science Through an Inquiry Approach	3
Major and Elective courses		5
<b>Hours</b>		<b>15</b>

### Senior

#### Fall

BIOC 3653	Survey of Biochemistry	3
CHEM 4990	Undergraduate Research in Chemistry	2
PHIL 3933	Creation and Evolution	3
SMED 4023	Advanced Field Placement in Mathematics and Science	3
SMED 4713	Teaching and Learning Science in the Secondary School	3
Major and Elective courses		3

**Hours** **17**

#### Spring

CIED 4720	Internship in the Secondary Classroom	6
SMED 4723	Senior Seminar in Secondary Mathematics and Science Education	3

**Hours** **9**

**Total Hours** **120**