

# B.A. in Chemistry with Teacher Certification

Click on the course number to view course title and description.

Code	Title	Semester Hours
<b>BA Chemistry with Teacher Certification Degree Plan (120 hours)</b>		
<b>Core Requirements (39 hours)</b>		
First Year Seminar		3
FYE 1301	First Year Seminar	
Freshmen Composition I		3
EN 1311	Rhetoric and Composition	
or EN 1313	Rhetoric and Composition for International Students	
Literature		3
Any EN 23XX literature course		
History		3
Any 1000, 2000, or 3000-level HS course		
Social Science		3
Select two from the following: BA 1310, CJ 1301, CPH 1301, EC 2301, EC 2303, HU 3300, HU 3303, PO 1311, PO 1312, PO 1314, PS 1301, PS 2310, PS 2353, PS 2355, PS 2363, PS 2337, SC 1311, SC 2321, SC 2371, 3 hrs. of Communication Studies (CM 1341, CM 2333, CM 2334)		
Mathematics		
Satisfied by MT 2412 in the courses required for this major.		
Natural or Physical Sciences		
Satisfied by CH 1401 in the courses required for this major		
Fine Arts		3
Select any 3 hrs. of the following: Art (AR), Drama (DM), Music (MU) or MU 1300		
Foreign Language and International Engagement		6
This requirement is satisfied through one of four ways: (1) One 3-hour course in any language at the 3000 level or above, with a grade of B or better; (2) Two courses (1311 and 1312) in a language not previously studied; (3) Two courses (2311 and 2312) in a language previously studied at the high school or college level; (4) Qualifying scores on an AP or CLEP exam, or both the ACTFL OPI and WPT exams		
Philosophy - Self		3
PL 1301	Intro to Philosophy	
Philosophy - Ethics		3
PL 2301	Foundations of Ethics	
Theology - God		3
TH 1301	Introduction to Theology	
Intermediate Theology		3
Any TH 33xx course		
<b>Chemistry Major Courses (54 hours)</b>		
CH 1401	General Chemistry I	4
CH 1402	General Chemistry II	4
CH 2411	Organic Chemistry I	4
CH 2412	Organic Chemistry II	4
CH 3423	Analytical Chemistry	4
CH 3433	Physical Chemistry I	4
CH 3434	Physical Chemistry II	4
CH 3440	Inorganic Chemistry	4
CH 4451	Biochemistry I	4
CH 1100	Chemistry Seminar I	1
CH 3100	Chemistry Seminar II	1
MT 2412	Calculus I	4
MT 2413	Calculus II	4

PY 1404	University Physics I	4
PY 2404	University Physics II	4

**Teacher Certification Courses (27 hours)**

ED 3302	The American Secondary School	3
ED 2330	Teaching Diverse Populations	3
ED 3350	Reading-- Teaching Reading in the Secondary Content Areas	3
ED 3355	Educational Technology	3
ED 3361	Adolescent Development in the School Setting	3
ED 3362	Teaching-Learning and Secondary Methods	3
ED 4388	Professional Development Seminar-Secondary	3
ED 4689	Student Teaching-Secondary	6

**Electives (3 hours)** **3**

An elective can be any course taken from any discipline. Students can use these hours to pursue certificates, minors, or second majors.

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**Total Semester Hours** **120**

*This is a recommended degree plan subject to changes. Please meet with your adviser on a regular basis.*

*Click on the course number to view course title and description.*

**First Year**

<b>Fall</b>	<b>Semester Spring Hours</b>	<b>Semester Hours</b>
CH 1401	4 CH 1402	4
MT 2412	4 MT 2413	4
FYE 1301	3 CH 1100	1
EN 1311	3 PL 1301	3
Foreign Language	3 Foreign Language	3
	<b>17</b>	<b>15</b>

**Second Year**

<b>Fall</b>	<b>Semester Spring Hours</b>	<b>Semester Hours</b>
CH 2411	4 CH 2412	4
PY 1404	4 PY 2404	4
TH 1301	3 Social Science	3
Elective	3 Fine Arts	3
	Literature	3
	<b>14</b>	<b>17</b>

**Third Year**

<b>Fall</b>	<b>Semester Spring Hours</b>	<b>Semester Hours</b>
CH 3423	4 CH 3434	4
CH 3433	4 CH 3100	1
PL 2301	3 History	3
Advanced Theology	3 ED 2330	3
ED 3302	3 ED 3355	3
	ED 3361	3
	<b>17</b>	<b>17</b>

**Fourth Year**

<b>Fall</b>	<b>Semester Spring Hours</b>	<b>Semester Hours</b>
CH 4451	4 ED 4388	3
CH 3440	4 ED 4689	6
ED 3362	3	

ED 3350	3	
	<b>14</b>	<b>9</b>

**Total Semester Hours 120**

Minors in Chemistry and Biology require 20 credit hours while minors in Computer Science and Environmental Science require 18 credit hours.