

# Chemistry Education (CCHB)

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## Freshman

Fall	Hours	Spring	Hours
ENGL 1100 English Composition I		3 ENGL 1120 English Composition II	3
MATH 1610 Calculus I <b>or</b> 1617 Honors Calculus I		4 MATH 1620 Calculus II <b>or</b> 1627 Honors Calculus II	4
Core History I		3 Core History II	3
Core Fine Arts		3 Humanities Core	3
<b>CHEM 1110 General Chemistry I</b>		<b>3 CHEM 1120 General Chemistry for Scientists and Engineers II</b>	<b>3</b>
<b>CHEM 1111 General Chemistry I Laboratory</b>		<b>1 CHEM 1121 General Chemistry II Laboratory</b>	<b>1</b>
		<b>EDUC 1010 Orientation to Teacher Education<sup>3</sup></b>	<b>0</b>
	17		17

## Sophomore

Fall	Hours	Spring	Hours
PHYS 1500 General Physics I		4 PHYS 1510 General Physics II	4
Core Literature		3 Core Social Science	3
Core Social Science		3 COMM 1000 Public Speaking	3
<b>CHEM 2070 Organic Chemistry I</b>		3 Free Elective	3
<b>CHEM 2071 Organic Chemistry I Laboratory</b>		<b>1 CHEM 2080 Organic Chemistry II</b>	<b>3</b>
		<b>CHEM 2081 Organic Chemistry II Laboratory</b>	<b>1</b>
	14		17

## Junior

Fall	Hours	Spring	Hours
<b>FOUN 3000 Diversity of Learners and Settings<sup>3</sup></b>		<b>3 CHEM 3000 Chemical Literature</b>	<b>1</b>
<b>RSED 3000 Diversity and Exceptionality of Learners<sup>3</sup></b>		<b>3 Chemistry Elective (3000-5000 level)</b>	<b>4</b>
<b>CHEM 3050 Analytical Chemistry</b>		<b>3 CTSE 4090 Curriculum and Teaching I: Science<sup>1,3</sup></b>	<b>4</b>
<b>CHEM 3051 Analytical Chemistry Laboratory</b>		<b>1 CTRD 5000 Language and Literacy in the Content Areas<sup>3</sup></b>	<b>3</b>
<b>CTSE 5000 Technology in Science Education<sup>3</sup></b>		<b>2 Chemistry Elective (3000-5000 level)</b>	<b>3</b>
<b>CHEM 3160 Survey of Physical Chemistry</b>		<b>3</b>	
	15		15

## Senior

Fall	Hours	Spring	Hours
FOUN 3120 Adolescent Development, Learning, Motivation and Assessment II		3 <b>CTSE 4920 Clinical Residency<sup>2</sup></b>	<b>11</b>
<b>BCHE 5180 Biochemistry I</b>		<b>3 CTSE 5240 Clinical Residency Seminar in Science Teaching<sup>1,4</sup></b>	<b>1</b>
<b>BCHE 5181 Biochemistry I Laboratory</b>		1 UNIV 4AA0 Creed to Succeed	0
BIOL 1020 Principles of Biology	3		

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BIOL 1021 Principles of Biology Laboratory	1	
CTSE 5100 Curriculum and Teaching II: Science <sup>1,3</sup>	4	
	<b>15</b>	<b>12</b>

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**Total Hours: 122**

- 1 Prerequisite: Admission to Teacher Education.
- 2 Prerequisite: Admission to Clinical Residency (application for Clinical Residency is one year in advance).
- 3 Prerequisite for Admission to Clinical Residency.
- 4 Co-requisite with Clinical Residency.

Chemistry Elective: See advisor for approved course listing.