

# BA in Chemistry

Below is a sample 4-year plan for students pursuing the standard BA in Chemistry. To view the list of courses approved to fulfill Core 34, please visit the KU Core 34 page (<https://catalog.ku.edu/core34/>).

This degree plan assumes students will have the equivalent of MATH 101 or MATH 104, prior to freshman year, fall semester.

## Freshman

Fall	Hours Spring	Hours
MATH 115 (Core 34: Math and Statistics (SGE)) <sup>030*</sup>	3 Core 34: Communications (SGE) <sup>020</sup>	3
Core 34: English (SGE) <sup>010</sup>	3 Core 34: English (SGE) <sup>010</sup>	3
CHEM 170, 130, or 190 (Core 34: Natural and Physical Sciences (SGE)) <sup>040*,1</sup>	5 MATH 116 (Major Pre-requisite)	3
Core 34: Social and Behavior Science (SGE) <sup>050</sup>	3 CHEM 175, 135, or 195 (Major Requirement)	5
CHEM 180 (Major Requirement) <sup>2</sup>	0.5	
	<b>14.5</b>	<b>14</b>

## Sophomore

Fall	Hours Spring	Hours
1st Semester Language (BA Second Language)	5 2nd Semester Language (BA Second Language)	5
PHSX 114	4 PHSX 115 (Major Pre-requisite)	4
CHEM 201 (Major Course) <sup>2</sup>	1 CHEM 335 or 385 (Major Requirement)	3
CHEM 330 or 380 (Major Requirement)	3 CHEM 336 (Major Requirement)	2
CHEM 331 (Major Requirement)	2 Chemistry Elective/Second Area of Study/Degree/Junior-Senior Hours <sup>4</sup>	3
	<b>15</b>	<b>17</b>

## Junior

Fall	Hours Spring	Hours
CHEM 400 (Major Requirement) <sup>2</sup>	3 4th Semester Language, or 1st semester of Another Language (BA Second Language)	3
CHEM 401 (Major Requirement) <sup>2</sup>	2 Core 34: US Culture (SGE) <sup>070</sup>	3
3rd Semester Language (BA Second Language)	3 Core 34: Arts and Humanities (SGE) <sup>060</sup>	3
Core 34: Arts and Humanities (SGE) <sup>060</sup>	3 Chemistry Elective/Second Area of Study/Degree/Junior-Senior Hours <sup>4</sup>	3
Core 34: Social and Behavioral Science (SGE) <sup>050</sup>	3 Chemistry Elective/Second Area of Study/Degree/Junior-Senior Hours <sup>4</sup>	3

Chemistry Elective/Second Area of Study/Degree/Junior-Senior Hours <sup>4</sup>	3	
	<b>17</b>	<b>15</b>
<b>Senior</b>		
<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
CHEM 510 <sup>2</sup>	3 CHEM 635 <sup>2,3</sup>	2
CHEM 511 <sup>2</sup>	2 CHEM 636, 698, or 699 (Capstone Requirement) <sup>2,3</sup>	3
CHEM 695 (Major Requirement) <sup>2</sup>	0.5 Chemistry Elective/Second Area of Study/Degree/Junior-Senior Hours <sup>4</sup>	3
CHEM 698	2 Chemistry Elective/Second Area of Study/Degree/Junior-Senior Hours <sup>4</sup>	3
Core 34: Global Culture (SGE) <sup>070</sup>	3 Chemistry Elective/Second Area of Study/Degree/Junior-Senior Hours <sup>4</sup>	3
Chemistry Elective/Second Area of Study/Degree/Junior-Senior Hours <sup>4</sup>	3	
	<b>13.5</b>	<b>14</b>
<b>Total Hours 120</b>		

<sup>1</sup> CHEM 170 requires eligibility for MATH 115 in order to enroll.

<sup>2</sup> CHEM 180, CHEM 201, CHEM 400, CHEM 401, CHEM 510, CHEM 511, and CHEM 695 are Fall only courses. CHEM 635, CHEM 636 are Spring only courses.

<sup>3</sup> Students can elect to enroll in CHEM 636 Instrumental Methods of Analysis Laboratory or 3 hours of undergraduate research (CHEM 698 or CHEM 699) to fulfill the Capstone requirement. Students who elect to take CHEM 636 must also take the co-requisite course CHEM 635 Instrumental Methods of Analysis.

<sup>4</sup> Hour requirements (incl. 45 jr/sr hrs) are typically met through Core 34, degree, major, second area of study and/or elective hours. Students completing the BGS with a major must choose a secondary area of study. Individual degree mapping is done in partnership with your advisor.

## Please note:

All students in the College of Liberal Arts and Sciences are required to complete 120 total hours of which 45 hours must be at the Jr/Sr (300+) level.

Courses with a \* designate courses that are degree requirements but can also be taken to fulfill the KU Core 34 requirement. If another course is used to fulfill the Core 34 requirement, the course listed is still required as a degree requirement.

### Notes:

\* - This course is a Required major course and is also part of Core 34: Systemwide General Education. If this course is not taken to fulfill the Core 34:SGE requirement, it must be taken in place of elective hours.

\*\* - This course is a Recommended Core 34: Systemwide General Education course. This specific course is not required but is recommended by the program's faculty.

\*\*\* - This course is a Required Core 34: Systemwide General Education course. This program is approved by the Kansas Board of Regents to require this specific Core 34: Systemwide General Education course. If a student did not take this course it must be taken in addition to other degree requirements.