

## Sample BS Standard Chemistry Degree Plan

Freshman Year		
Fall Semester		
CHEM 170	Chemistry for Chemical Sciences (G3 Natural Sciences) <sup>a</sup>	5
CHEM 180	Seminar I	0.5
MATH 125	Calculus I (G1, LO2)	4
Goal 2, LO1	ENGL 101 or any of the KU CORE approved G2, LO1 course	3
	First Year Seminar (G1 LO1, Critical Thinking; recommended)	3
Total Hours		15.5
Spring Semester		
CHEM 175	Chemistry for Chemical Sciences II	5
MATH 126	Calculus II	4
Goal 2, LO1	ENGL 102 or any of the KU CORE G2, LO1 course <sup>c</sup>	3
Goal 2, LO2	Oral Communication KU Core approved course <sup>c</sup>	3
HSES 108	Basic Skill Instruction in ____	1
Total Hours		16

Sophomore Year		
Fall Semester		
CHEM 330	Organic Chemistry I (or CHEM 380-Honors)	3
CHEM 331	Organic Chemistry I Laboratory	2
MATH 127	Calculus III	4
PHSX 211	General Physics I (also satisfies G1, LO1)	4
PHSX 216	General Physics I Laboratory	1
Goal 3	Arts and Humanities <sup>c</sup>	3
Total Hours		17
Spring Semester		
CHEM 335	Organic Chemistry II (or CHEM 385- Honors)	3
CHEM 336	Organic Chemistry II Laboratory	2
CHEM 250	Mathematical methods for Chemical Sciences	3
PHSX 212	General Physics II	3
PHSX 236	General Physics II Laboratory	1
BIOL 150	Molecular & Cellular Biology (pre-requisite for BIOL 600)	4
Total Hours		16

Junior Year		
Fall Semester		
CHEM 201	Laboratory Safety	1
CHEM 400	Analytical Chemistry	3
CHEM 401	Analytical Chemistry Laboratory	2
CHEM 530	Physical Chemistry I	4
BIOL 600	Introduction to Biochemistry (or BIOL 636)	3
Goal 3	Social Science	3
Total Hours		16
Spring Semester		
CHEM 535	Physical Chemistry II	3
CHEM 537	Physical Chemistry Laboratory	3
Goal 4, LO2	Global Awareness Course <sup>c</sup>	3
CHEM 698	UG Research (or CHEM 636 in Spring semester of senior year) <sup>b</sup>	1
Electives	Gen Ed elective	3
Total Hours		13

Senior Year		
Fall Semester		
CHEM 695	Seminar II	0.5
Goal 5	Social Responsibility and Ethics ( 300+ level course recommended) <sup>c</sup>	3
Goal 4, LO1	Cultural Awareness Course <sup>c</sup>	3
CHEM 698	UG Research (or CHEM 636 in Spring semester of senior year) <sup>b</sup>	2
Electives	Gen Ed elective	3
HSES 108	Basic Skill Instruction in ____	1
Electives	Gen Ed elective	3
Total Hours		15.5
Spring Semester		
CHEM 660	Systematic Inorganic Chemistry	3
CHEM 661	Advanced Inorganic Chemistry Lab	2
CHEM 635	Instrumental Methods of Analysis	2
CHEM 636	Instrumental Methods of Analysis Laboratory	3
CHEM 698	UG Research (or CHEM 636 in Spring semester of senior year) <sup>b</sup>	1
Total Hours		11

<b>Total Program Hours</b>	<b>120</b>
<b>Total Jr/Sr Hours</b>	<b>45.5</b>

- <sup>a</sup> CHEM 170 requires eligibility for MATH 115
  - <sup>b</sup> CHEM 636 or CHEM 698 option only for students starting catalog year 2017-2018 onwards. CHEM 698 or CHEM 699 + CHEM 636 recommended. Please check catalog for your year's requirements or talk to your advisor.
  - <sup>c</sup> [list of KU Core approved courses](#)
- \* Please Note: All students in the College of Liberal Arts and Sciences are required to complete 120 total hrs of which 45 hrs must be at the Jr/Sr (300+) level.