

## Sample Schedule for a Chemistry BA Degree-Biological Chemistry concentration

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 a the Jr/Sr (300+) level.

### FRESHMAN YEAR

#### FALL

CHEM 170	Chemistry for Chemical Sciences I (G3) <sup>a</sup>	5
CHEM 180	Seminar I	0.5
MATH 115	Calculus I (Quantitative Reasoning) <sup>c</sup>	3
G2, LO1	ENGL 101	3
G3	Arts and Humanities Unit <sup>b</sup>	3
Total Hours		14.5

#### SPRING

CHEM 175	Chemistry for Chemical Sciences II	5
MATH 116	Calculus II	3
G2, LO1	ENGL 102	3
BIOL 150	Molecular and Cellular Biology	4
Total Hours		15

### JUNIOR YEAR

#### FALL

CHEM 201	Laboratory Safety	1
CHEM 520	Biological Physical Chemistry and Laboratory	5
G4, LO1	Human Diversity Course <sup>b</sup>	3
Language III		3
BIOL 350	Genetics (or BIOL 400 or 416)	4
Total Hours		16

#### SPRING

CHEM 698	Undergraduate Research Problems <sup>d</sup>	2
G4, LO 2	Cultural Awareness Course <sup>b</sup>	3
Language IV		3
Elective	300+ and above	6
Total Hours		14

a Natural Sciences Unit

b See the KU Core <http://www.kucore.ku.edu> for a listing of all approved courses.

c Satisfies CLAS Quantitative Reasoning beyond College Algebra requirement-most students will satisfy

G1, LO2 KU Core Requirement by Math 101 ACT exemption

d Students can elect to enroll in 3 hours of research or CHEM 636, Instrumental Methods of Analysis Lab to fulfill the Capstone, Goal 6 requirement. Those students that elect CHEM 636 must also take CHEM 635 Instrumental Methods of Analysis as the co-requisite.

### SOPHOMORE YEAR

#### FALL

CHEM 330	Organic Chemistry I	3
CHEM 331	Organic Chemistry I Laboratory	2
PHSX 114	College Physics I (G1, LO1)	3
G2, LO1	COMS 130 or other approved course <sup>b</sup>	3
Language I		5
Total Hours		16

#### SPRING

CHEM 335	Organic Chemistry II	3
CHEM 336	Organic Chemistry Laboratory	2
PHSX 115	College Physics II	3
Language II		5
G3	Social Science Unit <sup>b</sup>	3
Total Hours		16

### SENIOR YEAR

#### FALL

CHEM 620	Analytical Chemistry	3
CHEM 621	Analytical Chemistry Laboratory	2
CHEM 695	Seminar II	0.5
CHEM 698	Undergraduate Research Problems <sup>d</sup>	1
BIOL 636	Biochemistry I	4
Elective	300+ and above	3
Total Hours		14.5

#### SPRING

CHEM 635	Instrumental Methods of Analysis <sup>d</sup>	2
CHEM 636	Instrumental Methods of Analysis Laboratory <sup>d</sup>	3
CHEM 698	Undergraduate Research Problems <sup>d</sup>	1
G5	Social Responsibility and Ethics Course <sup>b</sup>	3
BIOL 638	Biochemistry II	3
Elective	300+ and above	3
Total Hours		15