

**Sample Schedule for BS Chemistry degree-Chemical Physics 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 125	Calculus I (G1, LO2)	4
	G2, LO1	ENGL 101 or other Communications Course <sup>b</sup>	3
		First Year Seminar (Goal 1.1, Critical Thinking)	3
		Total Hours	15.5
SPRING			
	CHEM 175	Chemistry for Chemical Sciences II	5
	MATH 126	Calculus II	4
	G2, LO1	ENGL 102 or other course <sup>b</sup>	3
	G2, LO2	Communications Course	3
		Total Hours	15

**JUNIOR YEAR**

FALL	CHEM 201	Laboratory Safety	1
	CHEM 530	Physical Chemistry I	3
	CHEM 620	Analytical Chemistry	3
	CHEM 621	Analytical Chemistry Laboratory	2
	G3	Chemical Physics Required Elective Grp 1 <sup>d</sup>	3
		Humanities	3
		Total Hours	15
SPRING			
	CHEM 531	Physical Chemistry I Laboratory	2
	CHEM 535	Physical Chemistry II	4
	CHEM 698	Undergraduate Research Problems <sup>c</sup>	2
	G4, LO1	Culture Awareness Course <sup>b</sup>	3
		Chemical Physics Required Elective Grp 1 <sup>d</sup>	3
		Total Hours	14

<sup>a</sup> Natural Sciences Unit, CHEM 170 requires eligibility for MATH 115 to enroll

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

<sup>c</sup> Or Chem 699 Honors Research; for those admitted to the Departmental Honors program

<sup>d</sup> A list of courses that fulfill Group 1 and 2 can be found in the Course Catalog

**SOPHOMORE YEAR**

FALL	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 (G1, LO1)	4
	PHSX 216	General Physics I Laboratory	1
	MATH 290	Linear Algebra	2
		Total Hours	16
SPRING			
	CHEM 335	Organic Chemistry II (or CHEM 385-Honors)	3
	CHEM 336	Organic Chemistry Laboratory	2
	MATH 220	Applied Differential Equations (or MATH 320)	3
	PHSX 212	General Physics II	3
	PHSX 236	General Physics II Laboratory	1
	G3	Social Science	3
		Total Hours	15

**SENIOR YEAR**

FALL	CHEM 536	Physical Chemistry II Laboratory	2
	CHEM 695	Seminar II	0.5
	CHEM 698 <sup>c</sup>	Undergraduate Research Problems <sup>c</sup>	2
	G4, LO2	Global Awareness	3
	G5	Social Responsibility and Ethics	3
		Chemical Physics Required Elective Grp 2 <sup>d</sup>	3
		Total Hours	13.5
SPRING			
	CHEM 635	Instrumental Methods of Analysis (G6, LO1)	2
	CHEM 636	Instrumental Methods Laboratory (G6, LO1)	2
	CHEM 660	Systematic Inorganic Chemistry	3
	CHEM 661	Advanced Inorganic Laboratory	2
	CHEM 698	Undergraduate Research Problems <sup>c</sup>	2
		Chemical Physics Required Elective Grp 2 <sup>d</sup>	5
		Total Hours	16