

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) ^a	5	
CHEM 180	Seminar I	0.5	
MATH 125	Calculus I (G1, LO2)	4	
G2, LO1	ENGL 101 or other Communications Course ^b	3	
	First Year Seminar (Goal 1.1, Critical Thinking)	3	
SPRING		Total Hours	15.5
FALL			
CHEM 175	Chemistry for Chemical Sciences II	5	
MATH 126	Calculus II	4	
G2, LO1	ENGL 102 or other course ^b	3	
G2, LO2	Communications Course	3	
SPRING		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 ^d	3	
	Humanities	3	
SPRING		Total Hours	15
FALL			
CHEM 531	Physical Chemistry I Laboratory	2	
CHEM 535	Physical Chemistry II	4	
CHEM 698	Undergraduate Research Problems ^c	2	
G4, LO1	Culture Awareness Course ^b	3	
	Chemical Physics Required Elective Grp 1 ^d	3	
SPRING		Total Hours	14

^a Natural Sciences Unit, CHEM 170 requires eligibility for MATH 115 to enroll

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

^c Or Chem 699 Honors Research; for those admitted to the Departmental Honors program

^d 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	
SPRING		Total Hours	16
FALL			
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	
SPRING		Total Hours	15

SENIOR YEAR

FALL			
CHEM 536	Physical Chemistry II Laboratory	2	
CHEM 695	Seminar II	0.5	
CHEM 698 ^c	Undergraduate Research Problems ^c	2	
G4, LO2	Global Awareness	3	
G5	Social Responsibility and Ethics	3	
	Chemical Physics Required Elective Grp 2 ^d	3	
SPRING		Total Hours	13.5
FALL			
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 ^c	2	
SPRING		Total Hours	16