

Suggested Four-Year Plans for Chemistry Majors

For all students under the 2014-2015 bulletin and forward

Freshman Year			
Fall		Spring	
ALL DEGREES			
CHM 203	General Chemistry I	CHM 205	General Chemistry II
CHM 204	General Chemistry I Lab	or CHM 285	Advanced General Chemistry II
BIO 201	General Biology: Organismal and population	CHM 206	General Chemistry II Lab
		or CHM 286	Advanced General Chemistry II Lab
BIO 205	General Biology: Organismal and population lab	BIO 202	General Biology: Cellular and Molecular
		BIO 206	General Biology: Cellular and Molecular lab

Sophomore Year			
Fall		Spring	
ALL DEGREES			
CHM 321	Organic Chemistry I	CHM 323	Organic Chemistry II
CHM 322	Organic Chemistry I Lab	CHM 324	Organic Chemistry II Lab
MTH 245	Calculus I (<i>Calculus I, and CHM 205/206 or 285/286 must be completed prior to declaring a chemistry major</i>)	PHY 201	General Physics for the Life Sciences I
		or PHY 213	General Physics I
		or PHY 221	Mathematic Modeling I
		<i>(PHY 201, 213 or 221 is a pre-req. for CHM 341)</i>	
		PHY 205	General Physics I Lab
		MTH 246	Calculus II

Junior Year			
Fall		Spring	
ALL DEGREES			
CHM 341	Physical Chemistry I	CHM 343	Physical Chemistry II (<i>pre-req for CHM 451/6</i>)
PHY 202	General Physics for the Life Sciences II	CHM 342	Physical Chemistry Lab
or PHY 214	General Physics II	CHM 315	Quantitative Analysis (<i>unless CHM 285/6</i>)
or PHY 222	Mathematic Modeling II		
<i>(PHY 202, 214 or 222 is a pre- or co-req. for CHM 341)</i>			
PHY 206	General Physics II Lab		
B.S.CHM – CHEMISTRY TRACK DEGREE			
CHM 381	Biochemistry (<i>fall only</i>)		
B.S.CHM – BIOCHEMISTRY TRACK DEGREE			
CHM 381	Biochemistry (<i>fall only</i>)	CHM xxx	Biochem Elective (CHM 521, 523, 525, 575, or 576)
CHM 382	Biochemistry Lab (<i>or spring</i>)		

Senior Year			
Fall		Spring	
ALL DEGREES			
CHM 456	Instrumental Analysis		
CHM 466	Instrumental Analysis Lab		
B.S. – GENERALIST TRACK DEGREE			
CHM xxx	Laboratory Elective (<i>or spring; 2 cr.</i>) (CHM 351, 382, 392, 496 & 497, 515, 528, 548, or 549)	CHM xxx	Lecture Elective (3 cr.) (CHM 381, 421, 445, 446, 448, 451, 502, 521, 523, 525, 527, 543, 544, 545, 556, 575, or 576)
B.S.CHM – CHEMISTRY TRACK DEGREE			
CHM 451	Inorganic Chemistry	CHM xxx	Additional Elective (2-3 cr.)* (CHM 392 _L , 445, 446, 447, 448, 543, 544, 545, 548 _L , 549 _L , 351 _L , 382 _L , 421, 502, 521, 523, 525, 527, 528 _L , 556, 575, or 576)
CHM xxx	PChem Elective* (CHM 445, 446, 448, 543, 544, 545, 548 _L , or 549 _L)	CHM 497	Research (<i>Total of 3 cr. from 496/497</i>)
CHM 496	Research (<i>Total of 3 cr. from 496/497</i>)		
B.S.CHM – BIOCHEMISTRY TRACK DEGREE			
CHM 451	Inorganic Chemistry	CHM 497	Research (<i>Total of 3 cr. from 496/497/498</i>)
BIO XXX	Biology Elective (BIO 317, 362, or 532)		
CHM 496/8	Research (<i>Total of 3 cr. from 496/497</i>)		

*Biology is required for the Biochemistry Track only; it is also a common pre-health science (medical/dental/pharmacy) requirement.

†CHM 315 is not required for those students who completed CHM 285/286

*At least one of the Chemistry-track electives must be a laboratory-based course. Lab courses are marked by a subscript L.