

BA Chemistry Regular Track

First Year		
First Semester		
General Chemistry 1 for Majors	CHEM 1130	3 hrs
General Chemistry 1 Lab	CHEM 1115	1 hr
Calculus I	MATH 1510	4 hrs
Second Semester		
General Chemistry 2 for Majors	CHEM 1140	3 hrs
General Chemistry 2 Lab	CHEM 1125	1 hr
Calculus II	MATH 1520	4 hrs
Second Year		
First Semester		
Organic Chemistry 1 for Majors	CHEM 2430	3 hrs
Organic Chemistry 1 Majors Lab	CHEM 2435	1 hr
Engineering Physics I	PHYS 1610	3 hrs
Engineering Physics I Lab	PHYS 1620	1 hr
Second Semester		
Analytical Chemistry 1	CHEM 2200	2 hrs
Analytical Chemistry 1 Lab	CHEM 2205	2 hrs
Organic Chemistry 2 for Majors	CHEM 2440	3 hrs
Organic Chemistry 2 Majors Lab	CHEM 2445	1 hr
Engineering Physics II	PHYS 1630	3 hrs
Engineering Physics II Lab	PHYS 1640	1 hr
Third Year		
First Semester		
Physical Chemistry 1	CHEM 3330	3 hrs
Second Semester		
Physical Chemistry 2	CHEM 3340	3 hrs
Fourth Year		
First Semester		
Inorganic Chemistry	CHEM 4500	3 hrs
Second Semester		
Chemistry 3000+ level Elective	CHEM 3xxx+	3 hrs
Senior Residency	CHEM 4950	0 hr

Notes:

PHYS 1310/1320/1330/1340 can be taken in place of PHYS 1610/1620/1630/1640

BS Chemistry Regular Track

First Year		
First Semester		
General Chemistry 1 for Majors	CHEM 1130	3 hrs
General Chemistry 1 Lab	CHEM 1115	1 hr
Calculus I	MATH 1510	4 hrs
Second Semester		
General Chemistry 2 for Majors	CHEM 1140	3 hrs
General Chemistry 2 Lab	CHEM 1125	1 hr
Calculus II	MATH 1520	4 hrs
Second Year		
First Semester		
Organic Chemistry 1 for Majors	CHEM 2430	3 hrs
Organic Chemistry 1 Majors Lab	CHEM 2435	1 hr
Engineering Physics I	PHYS 1610	3 hrs
Engineering Physics I Lab	PHYS 1620	1 hr
Second Semester		
Analytical Chemistry 1	CHEM 2200	2 hrs
Analytical Chemistry 1 Lab	CHEM 2205	2 hrs
Organic Chemistry 2 for Majors	CHEM 2440	3 hrs
Organic Chemistry 2 Majors Lab	CHEM 2445	1 hr
Engineering Physics II	PHYS 1630	3 hrs
Engineering Physics II Lab	PHYS 1640	1 hr
Third Year		
First Semester		
Physical Chemistry 1	CHEM 3330	3 hrs
The Chemical Literature	CHEM 3100	1 hr
Second Semester		
Physical Chemistry 2	CHEM 3340	3 hrs
Physical Chemistry Lab	CHEM 3345	1 hr
Organic Spectroscopy	CHEM 4400	3 hrs
Undergraduate Research	CHEM 3970	1 hr
Fourth Year		
First Semester		
Inorganic Chemistry	CHEM 4500	3 hrs
Analytical Chemistry 2	CHEM 4200	3 hrs
Analytical Chemistry 2 Lab	CHEM 4205	1 hr
Undergraduate Research	CHEM 3970	1 hr
Second Semester		
General Biochemistry	CHEM 3600	3 hrs
Mathematical Techniques	CHEM 4300	3 hr
Inorganic Chemistry Lab	CHEM 4505	1 hr
Undergraduate Research	CHEM 3970	1 hr
Senior Residency	CHEM 4950	0 hr

Notes:

PHYS 1310/1320/1330/1340 can be taken in place of PHYS 1610/1620/1630/1640

BA Biochemistry Regular Track

First Year		
First Semester		
General Chemistry 1 for Majors	CHEM 1130	3 hrs
General Chemistry 1 Lab	CHEM 1115	1 hr
Calculus I	MATH 1510	4 hrs
Principles of Biology I	BIOL 1240	3 hrs
Principles of Biology I Lab	BIOL 1245	1 hr
Second Semester		
General Chemistry 2 for Majors	CHEM 1140	3 hrs
General Chemistry 2 Lab	CHEM 1125	1 hr
Principles of Biology II	BIOL 1260	3 hrs
Principles of Biology II Lab	BIOL 1265	1 hr
Calculus II	MATH 1520	4 hrs
Second Year		
First Semester		
Organic Chemistry 1 for Majors	CHEM 2430	3 hrs
Organic Chemistry 1 Majors Lab	CHEM 2435	1 hr
Analytical Chemistry 1	CHEM 2200	2 hrs
Analytical Chemistry 1 Lab	CHEM 2205	2 hrs
Second Semester		
Organic Chemistry 2 for Majors	CHEM 2440	3 hrs
Organic Chemistry 2 Majors Lab	CHEM 2445	1 hr
Third Year		
First Semester		
Biochemistry 1	CHEM 4610	3 hrs
Biochemistry 1 Lab	CHEM 4615	1 hr
Engineering Physics I	PHYS 1610	3 hrs
Engineering Physics I Lab	PHYS 1620	1 hr
Second Semester		
Biochemistry 2	CHEM 4620	3 hrs
Engineering Physics II	PHYS 1630	3 hrs
Engineering Physics II Lab	PHYS 1640	1 hr
Fourth Year		
First Semester		
Physical Chemistry 1	CHEM 3330	3 hrs
or Chemistry 3000+ level elective	or 3xxx+	
Genetics	BIOL 3030	3 hrs
Second Semester		
Physical Chemistry 2	CHEM 3340	3 hrs
or Chemistry 3000+ level elective	or 3xxx+	
Chemistry 3000+ level Elective	CHEM 3xxx+	3 hrs
Senior Residency	CHEM 4950	0 hr

Notes:

PHYS 1310/1320/1330/1340 can be taken in place of PHYS 1610/1620/1630/1640

One semester of Physical Chemistry is required

BS Biochemistry Regular Track

First Year		
First Semester		
General Chemistry 1 for Majors	CHEM 1130	3 hrs
General Chemistry 1 Lab	CHEM 1115	1 hr
Calculus I	MATH 1510	4 hrs
Principles of Biology I	BIOL 1240	3 hrs
Principles of Biology I Lab	BIOL 1245	1 hr
Second Semester		
General Chemistry 2 for Majors	CHEM 1140	3 hrs
General Chemistry 2 Lab	CHEM 1125	1 hr
Principles of Biology II	BIOL 1260	3 hrs
Principles of Biology II Lab	BIOL 1265	1 hr
Calculus II	MATH 1520	4 hrs
Second Year		
First Semester		
Organic Chemistry 1 for Majors	CHEM 2430	3 hrs
Organic Chemistry 1 Majors Lab	CHEM 2435	1 hr
Analytical Chemistry 1	CHEM 2200	2 hrs
Analytical Chemistry 1 Lab	CHEM 2205	2 hrs
Engineering Physics I	PHYS 1610	3 hrs
Engineering Physics I Lab	PHYS 1620	1 hr
Second Semester		
Organic Chemistry 2 for Majors	CHEM 2440	3 hrs
Organic Chemistry 2 Majors Lab	CHEM 2445	1 hr
Engineering Physics II	PHYS 1630	3 hrs
Engineering Physics II Lab	PHYS 1640	1 hr
Third Year		
First Semester		
Biochemistry 1	CHEM 4610	3 hrs
Biochemistry 1 Lab	CHEM 4615	1 hr
Physical Chemistry 1	CHEM 3330	3 hrs
The Chemical Literature	CHEM 3100	1 hr
Second Semester		
Biochemistry 2	CHEM 4620	3 hrs
Biochemistry 2 Lab	CHEM 4625	1 hr
Physical Chemistry 2	CHEM 3340	3 hrs
Physical Chemistry Lab	CHEM 3345	1 hr
Undergraduate Research	CHEM 3970	1 hr
Fourth Year		
First Semester		
Genetics	BIOL 3030	3 hrs
Undergraduate Research	CHEM 3970	1 hr
Inorganic Chemistry	CHEM 4500	3 hrs
Second Semester		
Chemistry 4000+ level Elective*	CHEM 4xxx+	3 hrs
Undergraduate Research	CHEM 3970	1 hr
Senior Residency	CHEM 4950	0 hr

Notes: PHYS 1310/1320/1330/1340 can be taken in place of PHYS 1610/1620/1630/1640

*Elective must be selected from: 4200, 4300, 4400, 4470, 4700, 5xxx

BA Chemistry Pre-Med Track

First Year			
First Semester			
General Chemistry 1 for Majors	CHEM 1130		3 hrs
General Chemistry 1 Lab	CHEM 1115		1 hr
Calculus I	MATH 1510		4 hrs
Second Semester			
General Chemistry 2 for Majors	CHEM 1140		3 hrs
General Chemistry 2 Lab	CHEM 1125		1 hr
Calculus 2	MATH 1520		4 hrs
Second Year			
First Semester			
Organic Chemistry 1 for Majors	CHEM 2430		3 hrs
Organic Chemistry 1 Majors Lab	CHEM 2435		1 hr
Analytical Chemistry 1	CHEM 2200		2 hrs
Analytical Chemistry 1 Lab	CHEM 2205		2 hrs
General Physics I	PHYS 1310		3 hrs
General Physics I Lab	PHYS 1320		1 hr
Second Semester			
Organic Chemistry 2 for Majors	CHEM 2440		3 hrs
Organic Chemistry 2 Majors Lab	CHEM 2445		1 hr
Principles of Biochemistry	CHEM 3600		3 hrs
General Physics II	PHYS 1330		3 hrs
General Physics II Lab	PHYS 1340		1 hr
Third Year			
First Semester			
Physical Chemistry 1	CHEM 3330		3 hrs
The Chemical Literature	CHEM 3100		1 hr
Second Semester			
Physical Chemistry 2	CHEM 3340		3 hrs
Physical Chemistry Lab	CHEM 3345		1 hr
Organic Spectroscopy	CHEM 4400		3 hrs
Undergraduate Research	CHEM 3970		1 hr
Fourth Year			
First Semester			
Inorganic Chemistry	CHEM 4500		3 hrs
Analytical Chemistry 2	CHEM 4200		3 hrs
Analytical Chemistry 2 Lab	CHEM 4205		1 hr
Undergraduate Research	CHEM 3970		1 hr
Second Semester			
Mathematical Techniques	CHEM 4300		3 hrs
Inorganic Chemistry Lab	CHEM 4505		1 hr
Undergraduate Research	CHEM 3970		1 hr
Senior Residency	CHEM 4950		0 hr

BS Chemistry Pre-Med Track

First Year			
First Semester			
General Chemistry 1 for Majors	CHEM 1130		3 hrs
General Chemistry 1 Lab	CHEM 1115		1 hr
Calculus I	MATH 1510		4 hrs
Second Semester			
General Chemistry 2 for Majors	CHEM 1140		3 hrs
General Chemistry 2 Lab	CHEM 1125		1 hr
Calculus 2	MATH 1520		4 hrs
Second Year			
First Semester			
Organic Chemistry 1 for Majors	CHEM 2430		3 hrs
Organic Chemistry 1 Majors Lab	CHEM 2435		1 hr
Analytical Chemistry 1	CHEM 2200		2 hrs
Analytical Chemistry 1 Lab	CHEM 2205		2 hrs
General Physics I	PHYS 1310		3 hrs
General Physics I Lab	PHYS 1320		1 hr
Second Semester			
Organic Chemistry 2 for Majors	CHEM 2440		3 hrs
Organic Chemistry 2 Majors Lab	CHEM 2445		1 hr
General Physics II	PHYS 1330		3 hrs
General Physics II Lab	PHYS 1340		1 hr
General Biochemistry	CHEM 3600		3 hrs
Third Year			
First Semester			
Physical Chemistry 1	CHEM 3330		3 hrs
The Chemical Literature	CHEM 3100		1 hr
Second Semester			
Physical Chemistry 2	CHEM 3340		3 hrs
Physical Chemistry Lab	CHEM 3345		1 hr
Organic Spectroscopy	CHEM 4400		3 hrs
Undergraduate Research	CHEM 3970		1 hr
Fourth Year			
First Semester			
Inorganic Chemistry	CHEM 4500		3 hrs
Analytical Chemistry 2	CHEM 4200		3 hrs
Analytical Chemistry 2 Lab	CHEM 4205		1 hr
Undergraduate Research	CHEM 3970		1 hr
Second Semester			
Mathematical Techniques	CHEM 4300		3 hrs
Inorganic Chemistry Lab	CHEM 4505		1 hr
Undergraduate Research	CHEM 3970		1 hr
Senior Residency	CHEM 4950		0 hr

BA Biochemistry Pre Med Track

First Year		
First Semester		
General Chemistry 1 for Majors	CHEM 1130	3 hrs
General Chemistry 1 Lab	CHEM 1115	1 hr
Calculus I	MATH 1510	4 hrs
Principles of Biology I	BIOL 1240	3 hrs
Principles of Biology I Lab	BIOL 1245	1 hr
Second Semester		
General Chemistry 2 for Majors	CHEM 1140	3 hrs
General Chemistry 2 Lab	CHEM 1125	1 hr
Principles of Biology II	BIOL 1260	3 hrs
Principles of Biology II Lab	BIOL 1265	1 hr
Calculus II	MATH 1520	4 hrs
Second Year		
First Semester		
Organic Chemistry 1 for Majors	CHEM 2430	3 hrs
Organic Chemistry 1 Majors Lab	CHEM 2435	1 hr
Analytical Chemistry 1	CHEM 2200	2 hrs
Analytical Chemistry 1 Lab	CHEM 2205	2 hrs
Second Semester		
Organic Chemistry 2 for Majors	CHEM 2440	3 hrs
Organic Chemistry 2 Majors Lab	CHEM 2445	1 hr
Third Year		
First Semester		
Biochemistry 1	CHEM 4610	3 hrs
Biochemistry 1 Lab	CHEM 4615	1 hr
General Physics I	PHYS 1310	3 hrs
General Physics I Lab	PHYS 1320	1 hr
Second Semester		
Biochemistry 2	CHEM 4620	3 hrs
General Physics II	PHYS 1330	3 hrs
General Physics II Lab	PHYS 1340	1 hr
Fourth Year		
First Semester		
Physical Chemistry 1	CHEM 3330	3 hrs
or Chemistry 3000+ level elective	or 3xxx+	
Genetics	BIOL 3030	3 hrs
Second Semester		
Physical Chemistry 2	CHEM 3340	3 hrs
or Chemistry 3000+ level elective	or 3xxx+	
Chemistry 3000+ level Elective	CHEM 3xxx+	3 hrs
Senior Residency	CHEM 4950	0 hr

Notes:

One semester of Physical Chemistry is required

BS Biochemistry Pre Med Track

First Year		
First Semester		
General Chemistry 1 for Majors	CHEM 1130	3 hrs
General Chemistry 1 Lab	CHEM 1115	1 hr
Calculus I	MATH 1510	4 hrs
Principles of Biology I	BIOL 1240	3 hrs
Principles of Biology I Lab	BIOL 1245	1 hr
Second Semester		
General Chemistry 2 for Majors	CHEM 1140	3 hrs
General Chemistry 2 Lab	CHEM 1125	1 hr
Principles of Biology II	BIOL 1260	3 hrs
Principles of Biology II Lab	BIOL 1265	1 hr
Calculus II	MATH 1520	4 hrs
Second Year		
First Semester		
Organic Chemistry 1 for Majors	CHEM 2430	3 hrs
Organic Chemistry 1 Majors Lab	CHEM 2435	1 hr
Analytical Chemistry 1	CHEM 2200	2 hrs
Analytical Chemistry 1 Lab	CHEM 2205	2 hrs
General Physics I	PHYS 1310	3 hrs
General Physics I Lab	PHYS 1320	1 hr
Second Semester		
Organic Chemistry 2 for Majors	CHEM 2440	3 hrs
Organic Chemistry 2 Majors Lab	CHEM 2445	1 hr
General Physics II	PHYS 1330	3 hrs
General Physics II Lab	PHYS 1340	1 hr
Third Year		
First Semester		
Biochemistry 1	CHEM 4610	3 hrs
Biochemistry 1 Lab	CHEM 4615	1 hr
Physical Chemistry 1	CHEM 3330	3 hrs
The Chemical Literature	CHEM 3100	1 hr
Second Semester		
Biochemistry 2	CHEM 4620	3 hrs
Biochemistry 2 Lab	CHEM 4625	1 hr
Physical Chemistry 2	CHEM 3340	3 hrs
Physical Chemistry Lab	CHEM 3345	1 hr
Undergraduate Research	CHEM 3970	1 hr
Fourth Year		
First Semester		
Genetics	BIOL 3030	3 hrs
Undergraduate Research	CHEM 3970	1 hr
Inorganic Chemistry	CHEM 4500	3 hrs
Second Semester		
Chemistry 4000+ level Elective*	CHEM 4xxx+	3 hrs
Undergraduate Research	CHEM 3970	1 hr
Senior Residency	CHEM 4950	0 hr

Notes:

*Elective must be selected from: 4200, 4300, 4400, 4470, 4700, 5xxx