

# B.S. Chemistry w/Biochemistry Concentration (17-19 Bulletin)

## Chemistry Core (Taken by Everyone)

Course No.	Course Title	Credit Hours
CH141	General Chemistry I	4
CH142	General Chemistry II	4
CH143	General Chemistry I Lab	1
CH144	General Chemistry II Lab	1
or		
CH151H	Chemical Principles	4
CH153	Chemical Principles Lab	1
CH221	Organic Chemistry I	3
CH222	Organic Chemistry II	3
CH223	Organic Chemistry I Lab	1
CH224	Organic Chemistry II Lab	1
CH261	Analytical Chemistry	3
CH263	Analytical Chemistry Lab	1
CH363	Physical Chemistry I	3
CH367	Physical Chemistry Lab	2
CH478	Chemistry Seminar	0

## Support Courses

Course No.	Course Title	Credit Hours
MT135	Calculus and Analytic Geometry I	4
MT136	Calculus and Analytic Geometry II	4
PH125	General Physics I	3
PH125L	General Physics I Workshop	1
PH126	General Physics II	3
PH126L	General Physics II Workshop	1

## Additional Support Courses

Course No.	Course Title	Credit Hours
BL155	Biology I	3
BL156	Biology II	3
BL157	Biology I Lab	1
BL158	Biology II Lab	1

## Additional Biochemistry Courses

Course No.	Course Title	Credit Hours
CH435	Biochemistry I	3
CH436	Biochemistry II	3
CH437	Biochemistry Lab	1

+ 3 Upper Division CH Lecture Electives  
(Must include one *CAP, AW, OP Course*)

Course No.	Course Title	Credit Hours
	AT LEAST ONE CH ELECTIVES	
CH366	Physical Chemistry II	3
CH439	Biochemistry III	3
CH441	<i>Instrumental Analysis</i>	3
CH443	<i>Instrumental Analysis (CAP, AW, OP)</i>	2
CH481	Inorganic Chemistry	3
CH495	Special Topics	3
CH399	<i>Undergraduate Research (CAP, AW, OP)</i>	3
CH398	<i>Literature Research in Chemistry (CAP, AW, OP)</i>	3

Course No.	Course Title	Credit Hours
	THESE COURSES CAN BE SUBSTITUTED FOR UP TO TWO CH ELECTIVES	
BL213	Genetics	4
BL301	Introduction to Cell Biology	3
BL302	Developmental Biology	3
BL310-310L	Microbiology and Lab	4
BL350-350L	Vertebrate Anatomy and Lab	5
BL360-360L	Human Physiology and Lab	4
BL410	Medical Microbiology	3
BL459	Molecular Cell Biology	3
BL465	Molecular Genetics	3
BL470	Molecular Methods Lab	3
BL471	Immunology	3
BL475	Endocrinology	3
PS426	Psychopharmacology	3

## Optional Lab Courses

Course No.	Course Title	Credit Hours
CH368	Physical Chemistry II Lab	1
CH482	Inorganic Chemistry Lab	1

# The Chemistry Program – B.S. Chemistry w/Biochemistry Concentration (19-21 Bulletin)

## Chemistry Core (Taken by Everyone)

Course No.	Course Title	Credit Hours
CH141	General Chemistry I	4
CH142	General Chemistry II	4
CH143	General Chemistry I Lab	1
CH144	General Chemistry II Lab	1
or		
CH151H	Chemical Principles	4
CH153	Chemical Principles Lab	1
CH221	Organic Chemistry I	3
CH222	Organic Chemistry II	3
CH223	Organic Chemistry I Lab	1
CH224	Organic Chemistry II Lab	1
CH261	Analytical Chemistry	3
CH263	Analytical Chemistry Lab	1
CH363	Physical Chemistry I	3
CH367	Physical Chemistry Lab	2
CH478	Chemistry Seminar	0

## Support Courses

Course No.	Course Title	Credit Hours
MT135	Calculus and Analytic Geometry I	4
MT136	Calculus and Analytic Geometry II	4
PH125	General Physics I	3
PH125L	General Physics I Workshop	1
PH126	General Physics II	3
PH126L	General Physics II Workshop	1

## Additional Support Courses

Course No.	Course Title	Credit Hours
BL155	Biology I	3
BL156	Biology II	3
BL157	Biology I Lab	1
BL158	Biology II Lab	1

## Additional Biochemistry Courses

Course No.	Course Title	Credit Hours
CH435	Biochemistry I	3
CH436	Biochemistry II	3
CH437	Biochemistry Lab	1

+ 3 Upper Division CH Lecture Electives  
(Must include one *CAP, AW, OP Course*)

Course No.	Course Title	Credit Hours
	AT LEAST TWO CH ELECTIVES	
CH366	Physical Chemistry II	3
CH439	Biochemistry III	3
CH441	<i>Instrumental Analysis</i>	3
CH443	<i>Instrumental Analysis (CAP, AW, OP)</i>	2
CH481	Inorganic Chemistry	3
CH495	Special Topics	3
CH399	<i>Undergraduate Research (CAP, AW, OP)</i>	3
CH398	<i>Literature Research in Chemistry (CAP, AW, OP)</i>	3

Course No.	Course Title	Credit Hours
	THESE BL COURSES CAN BE SUBSTITUTED FOR <u>ONE</u> CH ELECTIVE	
BL301	Introduction to Cell Biology	3
BL302	Developmental Biology	3
BL310-310L	Microbiology and Lab	4
BL410	Medical Microbiology	3
BL459	Molecular Cell Biology	3
BL465	Molecular Genetics	3
BL470	Molecular Methods Lab	3
BL471	Immunology	3
PS426	Psychopharmacology	3

Students who are double majoring in CMB and Chemistry may take BOTH BL 465 and BL 470 in place of ONE of their upper-division CH electives.

## Optional Lab Courses

Course No.	Course Title	Credit Hours
CH368	Physical Chemistry II Lab	1
CH482	Inorganic Chemistry Lab	1