

**Bachelor of Science in Chemistry  
(B.S.Ch.) Chemistry – Biochemistry Concentration  
Fall 2017 Undergraduate Catalog**

**Freshman Year**

ENGL 1010	3	ENGL 1020	3
CHEM 1110/1111	4	CHEM 1120/1121	4
GE MATH 1910	4	MATH- 1920	4
GE Humanities/Fine Arts	3	BIOL 1110/1111	4
Elective (ACAD 1100)	3		
<i>Semester Totals</i>	<i>17 hrs.</i>		<i>15 hrs.</i>

**Sophomore Year**

COMM 2381	3	GE Social/Behavioral Science	3
CHEM 3310/3301	4	CHEM 3501/3511	4
BIOL 1120/1121	4	PHYS 2120/2121*	4
PHYS 2110/2111*	4	ENGL 2201 or 2202	3
<i>Semester Totals</i>	<i>15 hrs.</i>		<i>14 hrs.</i>

**Junior Year**

CHEM 3201/3211	5	CHEM 3111	3
MATH**	3	CHEM 3411	3
GE History	3	Ethics***	3
GE Humanities/Fine Arts	3	GE History	3
		GE Social/Behavioral Science	3
<i>Semester Totals</i>	<i>14 hrs.</i>		<i>15 hrs.</i>

**Senior Year**

CHEM 4501	2	CHEM 4903	1
CHEM 4511	3	UD CHEM lab	1
Elective	3	UD CHEM	3
CHEM 4901	1	CHEM 4999	1
CHEM 4902	1	UD BIOL****	3
Elective	3	Elective	3
UD CHEM	3	Elective	2
<i>Semester Totals</i>	<i>16 hrs.</i>		<i>14 hrs.</i>

\*With permission of the Chair of the Chemistry Department, PHYS 2010/2011 and 2020/2021 may be substituted for this sequence.

\*\*One of MATH 2110, 2120, 4611, 463, or COMP 1900.

\*\*\* One of PHIL 3512, 3514, or 3515.

\*\*\*\*One of BIOL 3130, 3500, or CHEM 4512.

GE = General Education Requirements      BS = Bachelor of Science college requirements      UD = Upper division  
Foreign Language Requirement – See the Undergraduate Catalog: <http://catalog.memphis.edu>

*Degree hours = 120*

*42 Upper Division hours required for graduation*

*No more than 2 hours of physical education courses may be counted toward a degree.*

*Residence – 30 of the last 60 hours must be taken at University of Memphis; at least 60 hours must be at a four-year institution; transfer students must earn at least 6 hours of a major at UM and at least 3 hours of a minor at UM*