

Biochemistry Major

Chemistry Courses

(208/208L) Analyt Chem w/ lab	4
(238/238L) Inorg Chem w/ lab	4
(312/312L/315/315L) Org Chem w/ lab	4
(336/336L) Biochem w/ lab	4
(412/415/415L) Adv Org Chem w/ lab	4
(436) Adv Biochem	3
(494) Senior Capstone	<u>1</u>
	24

Choose One Course

(308) Advanced Analytical Chemistry	3
(338) Advanced Inorganic Chemistry	3
(414) Medicinal Chemistry	<u>3</u>
	3

Biology Courses

(172) Exploring Molecular Biology	3
(181) Mechanisms of Genetic Inheritance	3
(182) Evolution	<u>2</u>
	8

Choose Three Courses

(308) Immunology	3
(313) Advanced Microbiology	4
(322) Advanced Genetics	4
(324) Cellular & Molecular Biology	3
(334) Developmental Biology	3
(378) Advanced Human Physiology I	5
(379) Advanced Human Physiology II	<u>5</u>
	9

Other Required Courses

Calculus (MATH 231)	4
Physics (PHYS 211, PHYS 212)	<u>8</u>
	12

Overall Total Credits 56

BS Chemistry (ACS) Major

Required Courses

(208/208L) Analyt Chem w/ lab	4
(238/238L) Inorg Chem w/ lab	4
(312/312L/315/315L) Org Chem w/ lab	4
(327/327L) Phys Chem w/ lab	4
(336/336L) Biochem w/ lab	4
(494) Senior Capstone	<u>1</u>
	21

Choose Four Advanced Topic Courses

(308/308L) Adv Analyt Chem w/ lab	4
(338/338L) Adv Inorg Chem w/ lab	4
(412/415/415L) Adv Org Chem w/ lab	4
(414/414L) Med Chem w/ lab	4
(427/427L) Adv Phys Chem w/ lab	4
(436/436L) Adv Biochem w/ lab	<u>4</u>
	16

Other Courses

Calculus (MATH 231, MATH 232)	8
Physics (PHYS 211, PHYS 212)	<u>8</u>
	16

Overall Total Credits 53

BA Chemistry Major

Choose Four Foundation Courses

(208/208L) Analyt Chem w/ lab	4
(238/238L) Inorg Chem w/ lab	4
(312/312L/315/315L) Org Chem w/ lab	4
(327/327L) Phys Chem w/ lab	4
(336/336L) Biochem w/ lab	<u>4</u>
	16

Choose Two Advanced Topic Courses

(308/308L) Adv Analyt Chem w/ lab	4
(338/338L) Adv Inorg Chem w/ lab	4
(412/415/415L) Adv Org Chem w/ lab	4
(414/414L) Med Chem w/ lab	4
(427/427L) Adv Phys Chem w/ lab	4
(436/436L) Adv Biochem w/ lab	<u>4</u>
	8

Other Courses

Calculus (MATH 231)	4
Physics (PHYS 211, PHYS 212)	<u>8</u>
	12

Overall Total Credits 36

Chemistry Minor

Choose Four Foundation Courses

(208) Analyt Chem	3
(238) Inorg Chem	3
(312/315) Org Chem	3
(327) Phys Chem	3
(336) Biochem	<u>3</u>
	12

Choose Any Three Labs

(208L) Analyt Chem Lab	1
(238L) Inorg Chem Lab	1
(312L/315L) Org Chem Lab	1
(327L) Phys Chem Lab	1
(336L) Biochem Lab	<u>1</u>
	3

Choose One Advanced Topic

(308) Adv Analyt Chem	3
(338) Adv Inorg Chem	3
(390) Special Topics	3
(412/415) Adv Org Chem	3
(414) Med Chem	3
(427) Adv Phys Chem	3
(436) Adv Biochem	<u>3</u>
	3

Overall Total Credits 18

Four-Year Plans for Chemistry

Biochemistry Major

First Year

Fall

Chem 115/208/L (4)
Biol 172 (3)
Math 231 (4)

Spring

Chem 238/L (4)
Biol 181 (3)

Second Year

Fall

Chem 312/315/L (4)
Biol 182 (2)
Phys 211 (4)

Spring

Chem 412/415/L (4)
Phys 212 (4)

Third Year

Fall

Chem 208/L (4)
Chem 336/L (4)
Biol Elective (3-5)

Spring

Chem 436/L (4)
Biol Elective (3-5)

Fourth Year

Fall

Chem Elective (3)

Spring

Chem 494 (1)
Biol Elective (3-5)

BS Chemistry (ACS) Major

First Year

Fall

Chem 115/208/L (4)
Math 231 (4)

Spring

Chem 238/L (4)
Math 232 (4)

Second Year

Fall

Chem 312/315/L (4)
Phys 211 (4)

Spring

Adv Chem Elect (4)
Phys 212 (4)

Third Year

Fall

Chem 208/L (4)
Chem 336/L (4)

Spring

Adv Chem Elect (4)

Fourth Year

Fall

Chem 327/L (4)
Adv Chem Elect (4)

Spring

Adv Chem Elect (4)
Chem 494 (1)

BA Chemistry Major

First Year

Fall

Chem 115/208/L (4)
Math 231 (4)

Spring

Chem 238/L (4)

Second Year

Fall

Chem 312/315/L (4)
Chem 208/L (4)
Phys 211 (4)

Spring

Adv Chem Elect (4)
Phys 212 (4)

Third Year

Fall

Chem 336/L (4)

Spring

Adv Chem Elect (4)

Chemistry Minor

First Year

Fall

Chem 115/208/L (4)

Spring

Chem 238/L (4)

Second Year

Fall

Chem 312/315/L (4)
Chem 208/L (4)

Spring

Adv Chem Elect (3)

Third Year

Fall

Chem 327/336 (3)