

Departmental/Program Major Courses (40-47 credits) *A 2.0 average is required in these courses

***Required Major Courses (39 credits)**

- _____ (2) BIOL 12100 Biology I: Diversity, Ecology and Behavior (*satisfies Science, Technology & Society Selective for core*)
- _____ (3) BIOL 13100 Biology II: Development, Structure, and Function of Organisms
- _____ (2) BIOL 13500 First Year Biology Lab or BIOL 14501 First Yr Lab Neuro Res Project or IT 22600 Biotechnology Lab I
- _____ (3) BIOL 23100 Biology III: Cell Structure & Function
- _____ (2) BIOL 23200 Lab in Cell Structure & Function
- _____ (3) BIOL 24100 Biology IV: Genetics & Molecular Biology
- _____ (2) BIOL 24200 Lab in Genetics & Molecular Biology
- _____ (2) BIOL 28600 Intro to Ecology & Evolution
- _____ (3) BIOL 39500 Macromolecules (Req #9)
- _____ (3) BIOL 41500 Intro to Molecular Biology (Req #10)
- _____ (3) BIOL 42000 Eukaryotic Cell Biology (Req #11)
- _____ (2) BIOL 44201 Introductory Module: Protein Expression (Req #14)
- _____ (3) BIOL 59500 Methods & Measurements in Physical Biochemistry (Req #12)
- _____ (3) BCHM 56100 General Biochemistry I (Req #16)
- _____ (3) BCHM 56200 General Biochemistry II (Req #17)

***Biology Selectives - Select course for each requirement (4-7 credits)**

- _____ (1-2) Biology Lab Selective (Req #15)
- _____ (1-2) Biology Lab Selective (Req #15)
- _____ (2-3) Biology Selective (Req #13)

Other Departmental /Program Course Requirements (70-82 credits)

- _____ (0-4) General CHM 1 Selective: CHM 11500 (if 12901 is not taken) General Chemistry (*satisfies Science Selective for core*)
- _____ (4-5) General CHM 2 Selective: CHM 11600 or 12901 General Chemistry
- _____ (4) Organic CHM 1 Selective [LINK 3](#)
- _____ (4) Organic CHM 2 Selective [LINK 4](#)
- _____ (3-4) Analytical Chemistry Selective -- Select from BCHM 22100 or CHM 22400 or CHM 32100
- _____ (4-6) Physical Chemistry Selective – Select from CHM 37200 or CHM 37300 and 37400
- _____ (4) PHYS 1 Selective – Select from PHYS 23300 or 17200 (*satisfies Science Selective for core*)
- _____ (4) PHYS 2 Selective – Select from PHYS 23400 or 27200
- _____ (4-5) Calculus 1 Selective – Select from MA 16100 or 16500 (*satisfies Quantitative Reasoning Selective for core*)
- _____ (4-5) Calculus 2 Selective– Select from MA 16200, 16600 or 17300
- _____ (3) STAT 50300 Statistical Methods for Biology
- _____ (3-4) Computer Science Selective [LINK CS](#)
- _____ (3-4) ENGL 10600 or 10800 (*satisfies Written Communication for core*); (*satisfies Information Literacy Selective for core*)
- _____ (3) Language & Culture 1 Selective [LINK LC](#)
- _____ (3) Language & Culture 2 Selective [LINK LC](#)
- _____ (3) Language & Culture 3 Selective [LINK LC](#)
- _____ (3) COM 21700 (*satisfies Oral Communication for core*)
- _____ (3) General Education 1 Selective [LINK GE](#) (*satisfies Human Culture Behavioral/Social Science for core*)
- _____ (3) General Education 2 Selective [LINK GE](#) (*satisfies Human Cultures Humanities for core*)
- _____ (3) General Education 3 Selective [LINK GE](#)
- _____ (0-3) Teambuilding & Collaboration Selective [LINK TC](#)
- _____ (3) Great Issues Selective [LINK GI](#)
- _____ (1-3) Multidisciplinary Selective [LINK Mult](#)

Electives (0-10 credits)

_____ () _____ () _____ () _____ () _____

University Core Requirements

Human Cultures Humanities	<input type="checkbox"/>	_____	Science, Technology & Society Selective	<input type="checkbox"/>	_____
Human Cultures Behavioral/Social Science	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	_____	Oral Communication	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____			

The student is ultimately responsible for knowing and completing all degree requirements.

Biochemistry

(Beginning with CHM 11500 in fall)

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
2	BIOL 12100		3	BIOL 13100	
2	BIOL 13500	CHM 11500 coreq	4	CHM 11600	CHM 11500
5	CHM 11500	ALEKS score of 70	4-5	Calculus II Selective	Calc I
4-5	Calculus I Selective		3	Language/Culture 2 Selective	Lang 10100
3	Language/Culture 1 Selective		3-4	ENGL 10600 or 10800	
1	BIOL 11500				
17-18			17-19		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	BIOL 23100	CHM 12901 prereq; BIOL 13100	3	BIOL 24100	BIOL 23100
2	BIOL 23200		2	BIOL 24200	
4	Organic Chem 1 Selective	CHM 11600 or 12901	4	Organic Chem 2 Selective	Organic I
3	Language/Culture 3 Selective	varies	2	BIOL 28600	BIOL 12100
3	COM 21700		1	BIOL 29300	
			3	General Education 1 Selective	
15			15		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	BCHM 56100 (Req #16)	Organic II lecture	3	BCHM 56200 (Req #17)	
3	BIOL 39500 (Req #9)	BIOL 23100 & 24100	4	PHYS 2 Selective	
3	BIOL 41500 (Req #10)	BIOL 23100 & 24100	3-4	Computer Science Selective	
4	PHYS 1 Selective		1	BIOL 39300	
3	General Education 2 Selective		3	General Education 3 Selective	
16			14-15		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	BIOL 42000 (Req #11)		4	Physical Chemistry Selective	varies
3	BIOL 59500 (Meth & Meas in Physical Biochem) (Req #12)		3	STAT 50300	
3-4	Analytical Chemistry Selective		3	Great Issues Selective	
1-3	Multidisciplinary Selective		2	BIOL 44201 (Req #14)	
2-3	Biology Selective (Req #13)		1-2	Biology Lab Selective (Req #15)	
			1-2	Biology Lab Selective (Req #15)	
12-16			14		

**120 semester credits required for Bachelor of Science degree.
2.0 Graduation GPA required for Bachelor of Science degree.**