

Program	Bachelor of Science: Biochemistry and Biotechnology - Biological Chemistry Emphasis						
Total Credits	120						
Catalog	2023-2024						
<i>The plan below is one of several possible ways for you to complete this degree. Some classes are only offered every other year - please plan ahead.</i>							
<i>Your individualized plan may look different if you have already fulfilled some requirements.</i>							
<i>Your Financial Aid Award may require additional term credits for full-time funding.</i>							
<i>You must complete all university and program requirements successfully to complete this degree (GPA, 120 credits, LASC, WI, residency)</i>							
Curriculum			Course	Course Title	Credits	Take When	Total Credits

120.00

1st Year**Notes**

Core Requirement:	LASC 3	CHEM 150	General Chemistry I Lecture	3.00	1st Fall	16.00
Core Requirement:	LASC 3	1 CHEM 150L	General Chemistry I Lab	1.00	1st Fall	
Graduation Requirement:	First-Year Experience Course	FYE 101	First Year Experience	1.00	1st Fall	
	LASC 2	1		3.00	1st Fall	
Core Requirement:	LASC 3	BIOL 115/115L	Organismal Biology with Lab	4.00	1st Fall	15.00
Core Requirement:	LASC 4	2 MATH 261	Calculus I	4.00	1st Fall	
Core Requirement:	LASC 3	CHEM 210	General Chemistry II Lecture	3.00	1st Spring	
Core Requirement:	LASC 3	1 CHEM 210L	General Chemistry II Lab	1.00	1st Spring	
Core Requirement:		BCBT 220	Survey of BCBT Research and Methodology	1.00	1st Spring	15.00
Emphasis Requirement:	LASC 4	MATH 262	Calculus II	4.00	1st Spring	
	LASC 1B	ENGL 101	English Composition	3.00	1st Spring	
Core Requirement:	LASC 3	BIOL 111/111L	Cell Biology with Lab	3.00	1st Spring	

2nd Year

Core Requirement:		CHEM 350	Organic Chemistry I Lecture	3.00	2nd Fall	15.00
Core Requirement:		CHEM 355	Organic Chemistry I Lab	1.00	2nd Fall	
Core Requirement:	LASC 3	PHYS 200	Physics I with Calculus and Lab	4.00	2nd Fall	
Core Requirement:		BIOL 341/341L	Genetics with Lab	4.00	2nd Fall	
Core Requirement:		BCBT 360	Team-Based BCBT Research	3.00	2nd Fall	16.00
Core Requirement:		CHEM 360	Organic Chemistry II Lecture	3.00	2nd Spring	
Core Requirement:		CHEM 365	Organic Chemistry II Lab	1.00	2nd Spring	
Emphasis Requirement:		5 CHEM 380/380L	Analytical Chemistry I with Lab	4.00	2nd Spring	
Core Requirement:	LASC 3	PHYS 201	Physics II with Calculus and Lab	4.00	2nd Spring	15.00
Core Requirement:		BIOL 385/385L	Molecular Biology with Lab	4.00	2nd Spring	

3rd Year

	LASC/WI Elective			3.00	3rd Fall	14.00
	LASC Elective			3.00	3rd Fall	
Core Requirement:		CHEM 400	Biochemistry I	3.00	3rd Fall	15.00
Core Requirement:		CHEM 405	Biochemistry I Lab	1.00	3rd Fall	
Core Requirement:	Biology Elective	7 BIOL 323/323L	Human Anatomy with Lab	4.00	3rd Fall	
Core Requirement:		CHEM 410	Biochemistry II	3.00	3rd Spring	
Emphasis Requirement:		CHEM 450	Physical Chemistry: Thermodynamics	3.00	3rd Spring	15.00
Core Requirement:	Physiology Elective	9 BIOL 349/349L	Human Physiology with Lab	4.00	3rd Spring	
	LASC/WI Elective			5.00	3rd Spring	

4th Year

Emphasis Requirement:		CHEM 300	Inorganic Chemistry	3.00	4th Fall	14.00
Restricted Electives:		3		3.00	4th Fall	
	LASC Elective	4		4.00	4th Fall	
	LASC/WI Elective	4		4.00	4th Fall	
Core Requirement:	Biotechniques Elective-WI for major	6 BCBT 463	Proteomics	3.00	4th Spring	15.00
Emphasis Requirement:		BCBT 497	Senior Research Thesis	1.00	4th Spring	
Emphasis Requirement:		BCBT 450	Biophysical Chemistry	3.00	4th Spring	
Elective:				4.00	4th Spring	
Elective:				4.00	4th Spring	

120.00

1 CHEM 275 can be taken in place of either general chemistry lab and counts as a LASC 2. Students in LC will either take Biol 100 or Chem 275

2 ACT math score is needed to inform whether a student should begin directly in calculus or a lower math class.

³ Consult with an advisor as the list of possible electives is extensive.

4 In considering electives, keep in mind that all of the Liberal Arts and Science Curriculum requirements must be fulfilled.

⁵ CHEM 480 may be taken instead.

6 Other biotechniques courses numbered BCBT 461-464 may be taken. Only one biotechniques course is taught per semester on a 2 year rotation so plan accordingly.

⁷ Other classes such as BIOL 350/350L, BIOL 365/365L or BIOL 430 can be taken instead

8 Classes like HIST 374/379 (5/10/WI), HIST 105 (5/8), POL 160 (5/8), POL 120 (5/9), ENGL 407 (6/10), PHIL 215/311/312/318 (6/9/WI?), PHIL 102/120/235 (6/7), MUS 240 (6/7), PHIL 302 (6/8) double count. The right set of 4 of these takes out all required LASC 5, 6, 7, 8, 9, 10 + 2WI.

9 Other physiology classes such as BIOL 347/347L or BIOL 360/360L can be taken instead