



CHICAGO STATE
UNIVERSITY
College of Arts and Science

Bachelor of Science

Catalog year 2022-2023

CHMB

Biochemistry

**refer to the catalog at csu.edu for updates to program requirements*

Credit Hours	120 credit hours. Students starting a 120 credit hour program in Fall 2018 must complete a minimum of 15 credit hours per semester or 30 credit hours per academic year to earn a Bachelor's Degree on time in 4 years.	
Graph Point Average (GPA)	2.0 GPA (only 1 D in chemistry courses allowed)	
Residency Rule	Complete last 30 hours at Chicago State University. No more than 66 credit hours may be transferred in from a 2 year school	
Examinations	Transfer students who transfer in general education courses that meet their general education requirements in English Composition or Mathematics with a C or better do not have to take the corresponding placement examination.	
General Education Core	Chicago State University requires a minimum of 39 credit hours in the following General Education competencies:	
	English Composition (6 credits); Oral Communication (3 credits); Mathematics (3 credits); Foreign language (3 credits);	Social Science (9 credits); Humanities (3 credits); Fine Arts (3 credits); Humanity or Fine Arts (3 credits); Biological Sciences (3 credits); Natural Sciences (3 credits)
	Students must also complete 1 embedded diversity course. Some courses may fulfill more than one requirement. Only approved courses will satisfy Gen Ed Requirements. Transfer students with an AA or AS degree have met all General Education Requirements.	

	Subject Code/ Course Number	Term Offered	Credit Hours	Gen Ed	Also Allowed	Prerequisite Courses	Co-requisite Courses
SEMESTER 1							
College Algebra	Math 1200	F, S	3	Yes	Math 1250	Math placement test or Math 0990	
Composition I	Eng 1270	F, S	3	Yes	Eng 1230		
General Chemistry I	Chem 1400	F, S	3	Yes			Math 1200, Chem 1410
General Chemistry I Lab	Chem 1410	F, S	1	Yes			Chem 1400
Chemical Skills	Chem 1010	F	1		FYSE		
Foreign Language	Span/Fren/Chin/A FL 1010	F, S	3	Yes			
SEMESTER 2							
Trigonometry	Math 1210	F, S	3		Math 1250	Math 1200	
Composition II	Eng 1280	F, S	3	Yes	Eng 1240	Eng 1270	
General Chemistry II	Chem 1450	F, S	3			Chem 1400	Math 1210, Chem 1460
General Chemistry II Lab	Chem 1460	F, S	1			Chem 1410	Chem 1450
Humanity or Fine Arts		F, S	3	Yes			
Oral Communication	CMAT 2030	F, S	3	Yes	Eng 2011		

SEMESTER 3							
Calculus I	Math 1410	F, S	4		Math 1415	Math 1210 or Math 1250	
Calculus based Physics I	Phys 2110	F, S	4	Yes- CT			Math 1410
Organic Chemistry I	Chem 2400	F, S	3			Chem 1450	Chem 2410
Organic Chemistry I Lab	Chem 2410	F, S	1			Chem 1460	Chem 2400
Introduction to Biology	Biol 1701	F, S	4		Biol 1070 & 1080		

SEMESTER 4							
Calculus II	Math 1420	F, S	4			Math 1410	
Calculus based Physics II	Phys 2220	F, S	4			Phys 2110	Math 1420
Organic Chemistry II	Chem 2450	F, S	3			Chem 2400	Chem 2460
Organic Chemistry II Lab	Chem 2460	F, S	1			Chem 2410	Chem 2450
Biology II	Biol 1702	F, S	4		Zool 2050	Biol 1710	

SEMESTER 5							
Analytic Chemistry I	Chem 2800	F	3			Chem 1450, Chem 1460	Chem 2600
Analytic Chemistry I Lab	Chem 2810	F	1			Chem 1450, Chem 1460	Chem 2800
Safety	Chem 2600	F	1				
Elementary Inorganic	Chem 3240	F	3		Chem 3241		
Human Physiology	Psly 2040	F, S	4		Biol 2020 & 2021		
Thesis Research I	Chem 2630	F, S	1			Permission of research mentor	

SEMESTER 6							
Macroscopic Physical Chemistry	Chem 4250	S	3			Math 1420, Phys 2220	
Social Science Elective		F, S	3	yes			
Humanities Elective		F, S	3	yes			
Thesis Research I	Chem 2630	F, S	2			Permission of research mentor	
Biology Elective			4			Consent of advisor	

SEMESTER 7							
Microscopic Physical Chemistry	Chem 4200	F	3			Math 1420, Phys 2110	
Microscopic Physical Chemistry Lab	Chem 4210	F	1			Chem 2650	Chem 4270
Chemical Communication	Chem 3600	F	2			Eng 1280	
Biochemistry I	Chem 4303	F	3			Chem 2450, Chem 2460	
Biochemistry I Lab	Chem 4304	F	1				Chem 4303
Social Science Elective	Choose from diversity list	F, S	3				
Free Elective			1				

SEMESTER 8							
Analytic Chemistry II Lecture	Chem 4600	S	1			Chem 2800 Chem 2810	Chem 4610
Analytic Chemistry II Lab	Chem 4610	S	3			Chem 2810	Chem 4600
Biochemistry II	Chem 4313	S	3			Chem 4202	
Senior Thesis	Chem 4355		3			Permission of research mentor and 180 hours of research	
Fine Arts Elective		F, S	3		Yes		
Social Science Elective	Soc 1010 or Psyc 1010	F, S	3		Yes		

Notes: Students doing summer research or research for pay are not required to take Chem 2630 for a total of 3 credits. If you do a summer REU or do research for pay, these 3 credits become a free elective. However, 180 hours of research must be completed **before** you can take Chem 4355.