BIOCHEMISTRY MAJOR (CHEBI.BS)

Required Course		Hrs.	Prereq.	Rec.Yr. Fr					
BIOL 163	Principles of Molecular Biology	4	BIOL 163 for Biochemistry Majors	Fr					
BIOL 250	Genetics Molecular Cell Biology	4	BIOL 254, CHEM 221, 223L	Jr					
BIOL 354	Molecular Cell Biology	-	BIOL 204, OTIEN ZET, ZEOL						
One course from the following:									
BIOL 360	Principles of Microbiology	4	BIOL 254, CHEM 221, 223L	Jr					
BIOL 374	Immunology	3	BIOL/CHEBI/CHEM/EXSC majors	Jr					
CHEM 363	Neurochemistry	3	CHEM 350	Jr					
OUEM 424	Fr								
CHEM 131 Gen Chemistry for Sci Majors 3 *Coreq CHEM 133L Fr *Prerequisite: Must have passed at least one year of high school chemistry or one semester of college chemistry equivalent to CHEM									
105/1071	or above AND at least one of the following	lowing: MATH AC	T score of 20, MATH SAT score of 500, grade of	of C or better in one					
	asses: MATH 103, 110, 112, 115, 130, 16								
CHEM 133L	Gen Chemistry for Sci Maj I Lab	1	Coreq CHEM 131						
CHEM 132	Gen Chemistry for Sci Majors II	3	C- or better in CHEM 131, 133L	Fr .					
	Supplier (military 433 Archelos (Marchelos (military)) (military)		Coreq CHEM 134L						
CHEM 134L	Gen Chemistry for Sci Maj II Lab	1	Coreq CHEM 132						
	<u>OR</u>	N2AV		-					
CHEM 161	Acc Gen Chem for Science Majors	3	HS Chem & placement or	Fr					
		242	CHEM 105, 107L; Coreq CHEM 163L	E.					
CHEM 163L	Acc Gen Chem for Science Maj Lab	1	HS Chemistry & placement or	Fr					
		0	CHEM 105, 107L; Coreq CHEM 161 C- or better in CHEM 131, 133L, 132, 134L	Soph					
CHEM 221	Organic Chemistry I	3	or 161,163L; Coreq CHEM 223L	оорп					
011514 0001	Oi- Chamistrull ob	1	C- or better in CHEM 131, 133L, 132, 134L						
CHEM 223L	Organic Chemistry I Lab	· L	or 161, 163L; Coreq CHEM 221						
CHEM 222	Organic Chemistry II	3	C- or better in CHEM 221, 223L;	Soph					
CHEM 222	Organic Onemistry in	0	Coreq 224L						
CHEM 224L	Organic Chemistry II Lab	1	CHEM 221, 223L; Coreq CHEM 222						
CHEM 231	Analytical Chemistry	3	C- or better in CHEM 131, 133L, 132, 134L	Soph/Jr					
OTTEN 201	/ mary trout entermony		or 161,163L : Coreq 233L						
CHEM 233L	Analytical Chemistry Lab	1	C- or better in CHEM 131, 133L, 132, 134L						
			or 161,163L; Coreq 231						
CHEM 301	Laboratory Safety Management	1	CHEM 222, 224L	Jr					
CHEM 320	Physical Chemistry	3	C- or better in CHEM 231, 233L, MATH 161	Jr					
		25	or 162; Coreq CHEM 322L	TG.					
CHEM 322L	Physical Chemistry Lab	1	C- or better in CHEM 231, 233L, MATH 161	Jr					
5010255 TO 100		0	or 162; Coreq CHEM 320 C- or better in CHEM 222, 224L, 231, 233L	Jr					
CHEM 340	Advanced Inorganic Chemistry	3	C- or better in CHEM 222, 224L, 231, 235L C- or better in CHEM 222, 224L or BIOL 354						
CHEM 350	Biochemistry I	3	C- or better in CHEM 222, 224L;	OI .					
CHEM 351L	Biochemistry I Lab	I	Coreg CHEM 350						
CUEMASEA	Biochemistry II	3	C- or better in CHEM 350, 351L;	Jr					
CHEM 352	Biochemistry ii	5	Coreq CHEM 353L						
CHEM 353L	Biochemistry II Lab	1	C- or better in CHEM 350, 351L;	Jr					
CITEM 333E	Diochermony in East	.8	Coreq CHEM 352						
CHEM 397/399	Research or Summer Research	0-2	CHEM 221, 223L, 231, 233L	Jr					
^CHEM 497	Seminar	2	Sr Standing	Sr					
MATH 115	Elementary Statistics	3		Fr					
MATH 161	Calculus I	4	C or better in MATH 130 or placement	Fr					
		241	0.65	Conh					
PHYS 151	General Physics I	4	Official math placement or P/I	Soph					
	OR		Dra or Corog MATH 161						
PHYS 161	General Physics I with Calculus	4	Pre or Coreq MATH 161						
B1 // 10 1 = 2	One and Dhimbe II	1	Official math placement or P/I	Soph					
PHYS 152	General Physics II	4	Official matriplacement of 177						
DLIVE 460	OR General Physics II with Calculus	4	Pre or Coreq MATH 161						
PHYS 162	General Physics II with Calculus	**************************************							
		64-71 total hours	v						

64-71 total hours

REMINDERS

- 1.
- Departmentally approved substitutes may be taken in place of certain labs. CHEM 105-106 and labs do not count toward a major or minor in Chemistry.

[^]Satisfies advanced writing requirement

NAME:	

B.S. Degree: Biochemistry Major (for students entering in Fall 2021/Spring 2022)

In the "WHAT" column, enter the specific course number when applicable--e.g. HIST 121. In the "WHEN" column, enter the term and year in which the requirement is satisfied--e.g., sp '20.

General Education				Biochemistry Major (B.S.)	
WHAT	WHEN		WHAT	WHEN	
		ENGL 101* w/ C (2.0) [3 hrs] ENGL 110 w/ C (2.0)* [3 hrs] COMM 211 w/ C (2.0) [3 hrs] Dept senior seminar/writing course Met by: CHEM 497 [3 hrs]			BIOL 163 [4 hrs] BIOL 250 [4 hrs] BIOL 354 [4 hrs] BIOL 360/374/CHEM 363 [3-4 hrs]
======================================		FYEX 101 [3 hrs] FYEX 102 [1 hr] FYEX 103/104/105/106/107 [1 hr] FYEX 103/104/105/106/107 [1 hr]			CHEM 161 [3 hrs] CHEM 163L [1 hr] OR CHEM 131 [3 hrs] CHEM 133L [1 hr] CHEM 132 [3 hrs]
		Foundational Scientific Inquiry [3-4 hrs] Foundational Quantitative Analysis [3-4 hrs]			CHEM 134L [1 hr] CHEM 221 [3 hrs]
*Enter N	JA (not ap	Ethical/Spiritual Explor Lens (ETSP) [3 hrs] Aesthetic Expression Lens (AEXP) [3 hrs] Per & Soc Well Being Lens (PSWB) [3 hrs] Cultural Expression Lens (CEXP) [3 hrs] Experimental Inquiry Lens (EXIN) [3 hrs] INDS 401 [1 hr] INDS 402 [1 hr] 35 – 41 Total semester hours 120 semester hours required for graduation oplicable) if waived upon admission	13		CHEM 221 [3 hrs] CHEM 223L [1 hr] CHEM 222 [3 hrs] CHEM 224L [1 hr] CHEM 231 [3 hrs] CHEM 233L [1 hr] CHEM 301 [1 hr] CHEM 300 [3 hrs] CHEM 322L [1 hr] CHEM 340 [3 hrs] CHEM 350 [3 hrs] CHEM 351L [1 hr] CHEM 351L [1 hr] CHEM 352 [3 hrs] CHEM 353L [1 hr] CHEM 397/399 [0-2 hrs] CHEM 497 [2 hrs]
					MATH 115 [3 hrs] MATH 161 [4 hrs]
					PHYS 151/161 [4 hrs] PHYS 152/162 [4 hrs]
				-	64-71 semester hours

>Departmentally approved substitutes may be taken in place of certain laboratories.

>Students enrolled in a course for which there is a lab must also enroll in the lab or its approved substitute, except with approval of the department.

Except in specifically approved majors, a maximum of 52 hours in an academic discipline may count toward graduation. Three hours over the limit may count to accommodate an internship in the discipline.

>Only six hours of any minor may overlap with the required credit hours of a student's chosen major. The overlap constraint is not applicable to courses that majors or minors MUST take in others departments.