BIOCHEMISTRY MAJOR (CHEBI.BS)

Required Course BIOL 163 BIOL 250 BIOL 354	es Principles of Molecular Biology Genetics Molecular Cell Biology	<u>Hrs.</u> 4 4	Prereq. Coreq CHEM 131, 133L or CHEM 161, 163L BIOL 163 for Biochemistry Majors BIOL 254, CHEM 222, 224L	Rec.Yr. Fr Fr Jr		
One course from BIOL 360 BIOL 374 CHEM 363	the following: Principles of Microbiology Immunology Neurochemistry	4 3 3	BIOL 254, CHEM 221, 223L Jr/Sr BIOL CHEM major CHEM-350	Jr Jr Jr		
CHEM 131 Gen Chemistry for Sci Majors I 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 105/107L or above AND at least one of the following: MATH ACT score of 20, MATH SAT score of 500, grade of C or better in one						
	asses: MATH 103, 110, 112, 115, 130, 161		Cares CUEM 121			
CHEM 133L	Gen Chemistry for Sci Maj I Lab	1	Coreq CHEM 131	Er		
CHEM 132	Gen Chemistry for Sci Majors II	3	C- or better in CHEM 131, 133L Coreq CHEM 134L	Fr		
CHEM 134L	Gen Chemistry for Sci Maj II Lab OR	1	Coreq CHEM 132			
CHEM 161	Acc Gen Chem for Science Majors	3	HS Chem & placement or CHEM 105, 107L; Coreq CHEM 163L	Fr		
CHEM 163L	Acc Gen Chem for Science Maj Lab	1	HS Chemistry & placement or CHEM 105, 107L; Coreq CHEM 161	Fr		
CHEM 221	Organic Chemistry I	3	C- or better in CHEM 131, 133L, 132, 134L or 161,163L; Coreq CHEM 223L	Soph		
CHEM 223L	Organic Chemistry I Lab	1	C- or better in CHEM 131, 133L, 132, 134L or 161, 163L; Coreq CHEM 221			
CHEM 222	Organic Chemistry II	3	C- or better in CHEM 221, 223L; Coreq 224L	Soph		
OUEM OOAL	Organia Chamistry II I ah	1	CHEM 221, 223L; Coreq CHEM 222			
CHEM 224L CHEM 231	Organic Chemistry II Lab Analytical Chemistry	3	C- or better in CHEM 131, 133L, 132, 134L or 161,163L : Coreq 233L	Soph/Jr		
CHEM 233L	Analytical Chemistry Lab	1	C- or better in CHEM 131, 133L, 132, 134L or 161,163L; Coreq 231			
OUEM 204	Laboratory Safety Management	1	CHEM 222, 224L	Jr		
CHEM 301		3	C- or better in CHEM 231, 233L, MATH 161	Jr		
CHEM 320	Physical Chemistry	3	or 162; Coreg CHEM 321L			
CHEM 322L	Physical Chemistry Lab	1	C- or better in CHEM 231, 233L, MATH 161 or 162; Coreq CHEM 320	Jr		
011514040	A decreased because in Chamistry	3	C- or better in CHEM 222, 224L, 231, 233L	Jr		
CHEM 340	Advanced Inorganic Chemistry	3	C- or better in CHEM 222, 224L	Jr		
CHEM 350	Biochemistry I	1	C- or better in CHEM 222, 224L;	(CESA)		
CHEM 351L	Biochemistry I Lab	1	Coreq CHEM 350			
CHEM 352	Biochemistry II	3	C- or better in CHEM 350/351L Coreg CHEM 353L	Jr		
CHEM 353L	Biochemistry II Lab	1	C- or better in CHEM 350/351L Coreg CHEM 352	Jr		
		0.0	CHEM 221, 223L, 231, 233L	Jr		
CHEM 397/399	Research or Summer Research	0-2		Sr		
^CHEM 497	Seminar	2	Sr Standing	Fr		
MATH 115	Elementary Statistics	3	C or better in MATH 130 or placement	Fr		
MATH 161	Calculus I	4	C or better in MATH 130 of placement	1:1		
PHYS 15†	General Physics I OR	4	Official math placement or P/I	Soph		
PHYS 161	General Physics I with Calculus	4	Pre or Coreq MATH 161			
PHYS 152	General Physics II	4	Official math placement or P/I	Soph		
PHYS 162	OR General Physics II with Calculus	4	Pre or Coreq MATH 161			
		64-71 total hours				

64-71 total hours

REMINDERS

- 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

2011/06/2011/2012			
NAME:			
INVIVIE.			

B.S. Degree: Biochemistry Major (for students entering in Fall 2020/Spring 2021)

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 '00.

WHAT	WHEN	General Education	WHAT	WHEN	Biochemistry Major (B.S.)
		THE 404 (NIDO 400) 40 (0.0) FO 11			DIOI 462 [4 bre]
		ENGL 101/INDS 106* w/ C (2.0) [3 hrs]		·	BIOL 163 [4 hrs]
		ENGL 102/INDS 102* w/ C(2.0)* [3 hrs]			BIOL 250 [4 hrs]
		COMM 211/INDS 103 w/ C(2.0) [3 hrs]			BIOL 354 [4 hrs]
		Dept senior seminar/writing course	8	2	BIOL 360/374/CHEM 363 [3-4 hrs]
		Met by: CHEM 497 [2 hrs]			
					CHEM 161 [3 hrs]
		BIOL/CHEM/ENVS/PHSC/PHYS w/ lab) 	CHEM 163L [1 hr]
		/INDS 112 [3-4 hrs]			<u>OR</u>
		BIOL/CHEM/ENVS/PHSC/PHYS w/ lab			CHEM 131 [3 hrs]
		/INDS 112 [3-4 hrs]			CHEM 133L [1 hr]
		MATH (except 112,141,203,205/			CHEM 132 [3 hrs]
		BIOL 215/PSYC 230/INDS 114 [3-4 hrs]			CHEM 134L [1 hr}
		RELG/INDS 111 [3 hrs]			
		PHIL/INDS 110 [3 hrs]			CHEM 221 [3 hrs]
		INDS 120/INDS 116 [3 hrs]			CHEM 223L [1 hr]
		Any literature course/INDS 113[3 hrs]			CHEM 222 [3 hrs]
		Fine Arts			CHEM 224L [1 hr]
		ART (except 265)/			CHEM 231 [3 hrs]
		DANC/MUSC/THRE/ENGL 213/			CHEM 233L [1 hr]
	1	INDS 107 [3 hrs]			CHEM 301 [1 hr]
	5	Line States and States		=	CHEM 320 [3 hrs]
		OR			CHEM 322L [1 hr]
		MUSC/THRE [2 hrs]			CHEM 340 [3 hrs]
		same discipline [1 hr]		(CHEM 350 [3 hrs]
					CHEM 351L [1 hr]
		OR			CHEM 352 [3 hrs]
		MUSC/THRE [1 hr]			CHEM 353L [1 hr]
		same discipline [1 hr]	0		CHEM 397/399 [0-2 hrs]
		same discipline [1 hr]			CHEM 497 [2 hrs]
		HIST 100 or 200 level except HIST 201/			MATH 115 [3 hrs]
		INDS 117 [3 hrs]			MATH 161 [4 hrs]
		CJUS/ECON/GEOG/GNST/POLS/PSYC/			
-		SOCI/INDS 104 [3 hrs]			PHYS 151/161 [4 hrs]
		US Cultural Studies/INDS 109 [3 hrs]	()		PHYS 152/162 [4 hrs]
		Non-Western Cultural Studies/			
4		INDS 108 [3 hrs]			64-71 semester hours
		EXSC 110/120/121/130/201/205/240			
		/INDS 105 [3 hrs]	> Departr	nentally a	pproved substitutes may be taken in place of certain
		**************************************	laboratori		
		120 semester hours required for graduation	➤Studen the lab	ts enrolled or its a	d in a course for which there is a lab must also enroll in approved substitute, except with approval of the
			departme		DF 76 (2009)

*Enter NA (not applicable) if waived upon admission or if completing the honors program.

>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.