BIOCHEMISTRY MAJOR (CHEBI.BS)

Required Cours		Hrs.	Prereq.	Rec.Yr.					
BIOL 163	Principles of Molecular Biology	4	Coreq CHEM 131, 133L or CHEM 161, 163L						
BIOL 250	Genetics	4	BIOL 163 for Biochemistry Majors	Fr					
BIOL 354	Molecular Cell Biology	4	BIOL 254, CHEM 222, 224L	Jr					
One course from	n the following:								
BIOL 360	Principles of Microbiology	4	BIOL 254, CHEM 221, 223L	Jr					
BIOL 374	Immunology	3	Jr/Sr BIOL CHEM major	Jr					
CHEM 363	Neurochemistry	3	CHEM-350	Jr					
	The depletocopies of the resource of the resou								
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									
	lasses: MATH 103, 110, 112, 115, 130, 16		2 200000000						
CHEM 133L	Gen Chemistry for Sci Maj I Lab	1	Coreq CHEM 131	SEE					
CHEM 132	Gen Chemistry for Sci Majors II	3	C- or better in CHEM 131, 133L	Fr					
011514041	0 01 11 1 0 11 11 1	0.96	Coreq CHEM 134L						
CHEM 134L	Gen Chemistry for Sci Maj II Lab	1	Coreq CHEM 132						
CHEM 161	OR Acc Gen Chem for Science Majors	3	HS Chem & placement or	Fr					
OFFICIAL TO T	nee den onem for odience majors	3	CHEM 105, 107L; Coreq CHEM 163L	3.43					
CHEM 163L	Acc Gen Chem for Science Maj Lab	1	HS Chemistry & placement or	Fr					
OTILIVI TOOL	Acc dell'offern for delence way Lab		CHEM 105, 107L; Coreq CHEM 161	2.6					
CHEM 221	Organic Chemistry I	3	C- or better in CHEM 131, 133L, 132, 134L	Soph					
OTTEN 221	Organic Onemistry (J	or 161,163L; Coreq CHEM 223L	ООРП					
CHEM 223L	Organic Chemistry I Lab	1	C- or better in CHEM 131, 133L, 132, 134L						
OTILIWI ZZOL	Organic Orientistry (Lab	L.	or 161, 163L; Coreq CHEM 221						
CHEM 222	Organic Chemistry II	3	C- or better in CHEM 221, 223L;	Soph					
OTTEN ZZZ	Organic Onemistry in	5	Coreq 224L	СОРП					
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					
OTILIVI 201	Analytical Officinistry	0	or 161,163L : Coreq 233L	Соргиот					
CHEM 233L	Analytical Chemistry Lab	1	C- or better in CHEM 131, 133L, 132, 134L						
OTTENT ZOOL	7 marytical Chemicaly Lab	3.50	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					
OTTEM OLO	, riyoroar oriormoary		or 162; Coreq CHEM 321L	-					
CHEM 322L	Physical Chemistry Lab	1	C- or better in CHEM 231, 233L, MATH 161	Jr					
	,		or 162; Coreq CHEM 320						
CHEM 340	Advanced Inorganic Chemistry	3	C- or better in CHEM 222, 224L, 231, 233L	Jr					
CHEM 350	Biochemistry I	3	C- or better in CHEM 222, 224L	Jr					
CHEM 351L	Biochemistry I Lab	1	C- or better in CHEM 222, 224L;						
	70 0 P (1487) 5 T (148 0 P (1		Coreq CHEM 350						
CHEM 352	Biochemistry II	3	C- or better in CHEM 350/351L	Jr					
	•		Coreq CHEM 353L						
CHEM 353L	Biochemistry II Lab	1	C- or better in CHEM 350/351L	Jr					
	95		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	10 9 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Fr					
MATH 161	Calculus I	4	C or better in MATH 130 or placement	Fr					
PHYS 151	General Physics I	4	Official math placement or P/I	Soph					
	OR								
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					
	OR	03							
PHYS 162	General Physics II with Calculus	4	Pre or Coreq MATH 161						
		—64-71 total hours							
		or ritutal libura							

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. 2.

[^]Satisfies advanced writing requirement

NAME:	
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of a student's chosen major. The overlap constraint is not applicable to courses that majors or minors MUST take in others departments.

B.S. Degree: Biochemistry Major (for students entering in Fall 2019/Spring 2020)

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.

General Education				Biochemistry Major (B.S.)	
WHAT	WHEN		WHAT	WHEN	
					DIOI 400 (41 - 1
		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			BIOL 360/374/CHEM 363 [3-4 hrs]
		Met by: CHEM 497 [2 hrs]			
		Participation of #24% to #24 and #24 a			CHEM 161 [3 hrs]
		BIOL/CHEM/ENVS/PHSC/PHYS w/ lab			CHEM 163L [1 hr]
		[3 hrs]/INDS 112 [4 hrs]			OR
		BIOL/CHEM/ENVS/PHSC/PHYS w/ lab			CHEM 131 [3 hrs]
		[3 hrs]/INDS 112 [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 [3-4 hrs]			5112111 15 12 [1 111]
					CHEM 221 [3 hrs]
		PHIL [3 hrs]/INDS 110 [4 hrs]			CHEM 223L [1 hr]
		INDS 120 [3 hrs]/INDS 116 [4 hrs]			CHEM 222 [3 hrs]
		Any literature course/INDS 113[3 hrs]			
		Fine Arts			CHEM 224L [1 hr]
		ART (except 265)/			CHEM 231 [3 hrs]
		DANC/MUSC/THRE/ENGL 213/		_	CHEM 233L [1 hr]
		INDS 107 [3-4 hrs]			CHEM 301 [1 hr]
					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]			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]
		or INDS 117 [3-4hrs]		59	MATH 161 [4 hrs]
		CJUS/ECON/GEOG/GNST/POLS/PSYC/			AND THE RESERVE OF THE PROPERTY OF THE PROPERT
	-	SOCI [3hrs]/INDS 104 [4 hrs]			PHYS 151/161 [4 hrs]
		US Cultural Studies [3 hrs]/INDS 109 [4 hrs]			PHYS 152/162 [4 hrs]
		Non-Western Cultural Studies [3 hrs]/			7 11/12 12-11-11 11-1
-					64-71 semester hours
		INDS 108 [4 hrs]		-	0471 Schlester Hours
		EXSC 110/120/121/130/201/240	⊳Departr	nentally an	proved substitutes may be taken in place of certain
		[3 hrs]/INDS 105 [4 hrs]	laboratori		proved substitutes may be taken in place or seriam
			aboratori	00.	
		120 semester hours required for graduation	>Students enrolled in a course for which there is a lab must also enroll in		
		120 0011100101 110010 10441104 101 314441	the lab or its approved substitute, except with approval of the department.		
		-	NORTH MATERIAL OF THE CO.		
*Enter NA (not applicable) if waived upon admission or if				ally approved majors, a maximum of 52 hours in an	
completing the honors program.				may count toward graduation. Three hours over the commodate an internship in the discipline.	
			▶Only six hours of any minor may overlap with the required credit hours		