NAME:	
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## B.S. Degree: Biology Major (for students entering in Fall 2025/Spring 2026) Ecology & Environmental Science Concentration

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.

WHAT	WHEN	Liberal Arts Core	WHAT	Ecology WHEN	& Environmental Science Concentration
		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:			BIOL 115 [1 hr] BIOL 163 [3 hrs] BIOL 163L [1 hr] BIOL 164L [3 hrs] BIOL 164L [1 hr] BIOL 215 [3 hrs] BIOL 250 [3 hrs] BIOL 250L [1 hr] BIOL 252L [1 hr] BIOL 252L [1 hr] BIOL 254L [3 hrs] BIOL 254L [1 hr] BIOL 310L [3 hrs] BIOL 310L [1 hr] BIOL 310L [1 hr] BIOL 325/354/374 [3-4 hrs] BIOL 315/316/317/322 [4 hrs] BIOL 305/320/344/360 [3-4 hrs] BIOL 395/398/498 w/C (2.0) [1-2 hrs] BIOL 497 [2 hrs]  CHEM 161 [3 hrs] CHEM 163L [1 hr] OR CHEM 131 [3 hrs] CHEM 132 [3 hrs] CHEM 134L [1 hr]
*Entor N	IA (not ar	oplicable) if waived upon admission			CHEM 221 [3 hrs] CHEM 223L [1 hr]
For stud	lents clas	esified as transfers, FYEX course requirements con total transferrable credit hours.	NOTE: 1	wo of the fo	ollowing three course requirements must have a lab One additional Biodiversity course selected from BIOL 315/316/317/322 [4 hrs] BIOL 320/344/360/388/488[3-4 hrs] BIOL 320/344/360/388/488[3-4 hrs] 65-73 semester hours

➤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.

>Students may not receive credit for BIOL 111 & 112 and BIOL-163 and 164.

## BIOLOGY MAJOR – Ecology & Env. Science (BIOLEN.BS)

Required Courses	<u>s</u>	<u>Hrs.</u>	Prereq.	Rec.Yr.						
BIOL 115	Intro to Biology Profession	1	Coreg BIOL 163 or BIOL 164	Fr						
BIOL 163/163L	Prin of Molecular Biology + lab	3/1		Fr						
BIOL 164/164L	Prin of Organismal Biology + lab	3/1	C- or better in BIOL 163	Fr						
BIOL 215/215L	Biostatistics	3/1	100 level math placement or completion of	Soph						
DIOL 213/213L	Diostatistics	3/1		Зорп						
DIOI 050/050	0 11 11	044	DEVL-070; C- or better in BIOL 164	0 1						
BIOL 250/250L	Genetics + lab	3/1	C- or better in BIOL 163,164 for Bio majors;	Soph						
			C- or better in BIOL 163 for Biochem maj;							
			CHEM 221, 223L is highly recommended							
BIOL 252/252L	Physiology + lab	3/1	C- or better in BIOL 163, 164	Soph						
BIOL 254/254L	Research Methods in Bio + lab	3/1	C- or better in BIOL 163, 164, 215, 252 for Bio Maj;							
DIOL 204/204L	research wethods in bio i lab	0/1	C- or better in MATH 115 & ENVS 130 for ENVS m							
				aj						
			MATH 115, ENVS 130 for Env Sci							
BIOL 310/310L	Ecology + lab	3/1	BIOL 254/254L, CHEM 161, 163L	Jr/Sr						
BIOL ***	Biology elective	4		Soph-Sr						
One Biodiversity course selected from:										
BIOL 315/315L	Botany + lab	3/1	BIOL 215/215L, 254/254L	Jr						
				Jr						
BIOL 316/316L	Vertebrate Zoology + lab	3/1	BIOL 254/254L							
BIOL 317/317L	Invertebrate Zoology + lab	3/1	BIOL 163/163L, 164/164L	Jr						
BIOL 322/322L	Mammalogy + lab	3/1	BIOL 215/215L, 254/254L	Jr						
One Integrative cor	urse selected from:									
BIOL 305	Toxicology	3	BIOL 151/151L, 152/152L	Jr						
BIOL 320/320L	Animal Behavior	3/1	BIOL 254/254L	Jr						
BIOL 344	Evolution	3	BIOL 250 /250L	Jr						
BIOL 360/360L	Prin of Microbiology + lab	3/1	BIOL 250/250L; CHEM 221, 223L	Jr						
One Molecular cou	urse selected from									
BIOL 325	Embryology	3	Bio/Biochem/Chem/ExSci majors	Jr/Sr						
BIOL 354	Molecular Cell Biology	4	BIOL 250, CHEM 221, 223L	Jr/Sr						
BIOL 374	Immunology	3	BIOL/CHEBI/CHEM/EXSC major; CHEM 221, 223L	. Jr						
DIOL 074	minunology		2,02,01,12,101,11,100,11,10,11,10,11,11,11,11,11,1							
BIOL 395	Biology Internship	1	BIOL 254/254L	Jr						
DIOL 393			DIOL 234/234L	01						
DIG! 000//00	<u>OR</u>	4.0	DIOL 254/2541 - CHEM 224 2221	Jr/Sr						
BIOL 398/498	Biology Research	1-2	BIOL 254/254L; CHEM 221, 223L	31/31						
^BIOL 497	Seminar	2	Sr Stand or P/Faculty	Sr						
CHEM 161	Accel Gen Chem for Sci Majors	3	HS Chemistry and placement	Fr/Soph						
			or CHEM 105, 107L; Coreq CHE 163L							
CHEM 163L	Accel Gen Chem for Sci Majors Lab	1	HS Chemistry and placement	Fr/Soph						
OTILIWI TOOL	OR		or CHEM 105, 107L; Coreq CHEM 161							
OLIEM 424		3	Coreq CHEM 133L	Fr/Soph						
CHEM 131	General Chemistry Sci Maj I	S C 1 ! - 1 1 - 1 - 1	college of level 1992							
*Prerequ	uisite: Must have passed at least one ye	ear of high school ch	nemistry or one semester of college chemistry equivale	MATEL 102 110						
above A	ND at least one of the following: MATH	ACT score of 20, MA	ATH SAT score of 500, grade of C or better in one of the	ie classes: MATH 103, 110,						
112, 115,										
CHEM 133L	General Chemistry Sci Maj I Lab	1	Coreq CHEM 131							
CHEM 132	General Chemistry Sci Maj II	3	C- or better in CHEM 131, 133L;Coreq CHEM 134L	. Fr/Soph						
CHEM 134L	General Chemistry Sci Maj II Lab	1	Coreq CHEM 132							
CHEM 221	Organic Chemistry I	3	C- or better in CHEM 161,163L or 131,	Soph						
OI ILIVI ZZ I	Organic Chemistry 1		133L,132, 134L;Coreq CHEM 223L							
011544 0001	Ornania Chamistry Lab	1	C- or better in CHEM 161,163L or 131,							
CHEM 223L	Organic Chemistry Lab									
			133L132, 134L; Coreq CHEM 221							
		54-61 hrs								
	following three course requirements mus	st have a lab								
One additional Bi	iodiversity course selected from:									
BIOL 315/315L	Botany + lab	3/1	BIOL 215/215L, 254/254L	Jr						
BIOL 316/316L	Vertebrate Zoology + lab	3/1	BIOL 254/254L	Jr						
BIOL 317/317L	Invertebrate Zoology	3/1	BIOL 163/163L, 164/164L	Jr						
		3/1	BIOL 215/215L, 254/254L	Jr						
BIOL 322/322L	Mammalogy		DIOL 210/210L, 201/201L	<u>.</u>						
	ond the core requirements from the fo		DIOL 254/254L c= D/I	Jr/Sr						
BIOL 320/320L	Animal Behavior + lab	3/1	BIOL 254/254L or P/I							
BIOL 344	Evolution	3	BIOL 250/250L	Jr/Sr						
BIOL 360/360L	Principles of Microbiology	3/1	BIOL 250/250L; CHEM 221, 223L	Jr/Sr						
BIOL 388/488	Biology Topics	4								
**REMINDERS**		65-73 total hrs								
Biology majors are	e expected to take BIOL 163/163L,16/164L4, 215/215L	, 250/250L, 252/252L and 2	54/254L by the end of the sophomore year.							
O Majora must take	the required Chemistry courses in their freehman or so									

Majors must take the required Chemistry courses in their freshman or sophomore year.

Be aware that most upper division courses are offered every other year.

Graduate school candidates should check entrance requirements for several graduate schools.

Completion of BIOL-395, 398 or 498 with a grade of C or better is required for graduation.

<sup>^</sup>Satisfies advanced writing requirement.