BIOLOGY MAJOR (BIOLE.BS)

Ecology & Environmental Science Concentration

Required Courses		Hrs.	Prereq.	Rec.Yr.		
BIOL 115	Intro to Biology Profession	1	Coreq BIOL 163 or BIOL 164	Fr		
BIOL 163	Principles of Molecular Biology	4		Fr		
BIOL 164	Principles of Organismal Biology	4	BIOL 163 recommended	Fr		
BIOL 215	Biostatistics	4	Rec enrollment in DEVL 070 if not 100 level placed			
BIOL 250	Genetics	4	BIOL 164;163 for Biochem majors	Soph		
BIOL 252	Physiology	4	BIOL 163, 164	Soph		
BIOL 254	Research Methods in Biology	4	BIOL 163, 164, 215, 252 for Bio Majors;	Soph		
			MATH 115, ENVS 130 for Env Sci			
BIOL 310	Ecology	4	BIOL 254, CHEM 161, 163L	Jr/Sr		
BIOL ***	Biology elective	4		Soph-Sr		
One Biodiversity co	urse selected from:					
BIOL 315	Botany	4	BIOL 215, 254	Jr		
BIOL 316	Vertebrate Zoology	4	BIOL 254	Jr		
BIOL 317	Invertebrate Zoology	4	BIOL 163, 164	Jr		
BIOL 322	Mammalogy	4	BIOL 215, 254	Jr		
DIOL OZZ	Marintalogy	8				
One Integrative cou	rse selected from:					
BIOL 305	Toxicology	3	BIOL 151, 152	Jr		
BIOL 320	Animal Behavior	4	BIOL 254	Jr		
		3	BIOL 250	Jr		
BIOL 344	Evolution	4	BIOL 254; CHEM 221, 223L	Jr		
BIOL 360	Principles of Microbiology	4	BIOL 204, OHEW 221, 2232	51		
0 11 1	and the standard forms					
One Molecular cou		⊙ 4 -	BIOL 250	Jr/Sr		
BIOL 325	Molecular Embryology	4		Jr/Sr		
BIOL 354	Molecular Cell Biology	4	BIOL 254, CHEM 221, 223L			
BIOL 374	Immunology	4	BIOL/CHEBI/CHEM/EXSC major	Jr		
BIOL 395	Biology Internship	1	BIOL 254	Jr		
	OR			(Geographic)		
BIOL 398/498	Biology Research	1-2	BIOL 254; CHEM 221, 223L	Jr/Sr		
^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		
	<u> </u>		or CHEM 105, 107L; Coreq CHE 163L			
CHEM 163L	Accel Gen Chem for Sci Majors Lab	1	HS Chemistry and placement	Fr/Soph		
	OR		or CHEM 105, 107L; Coreq CHEM 161			
CHEM 131	General Chemistry Sci Mai I	3	Coreq CHEM 133L	Fr/Soph		
*Preregu	sisite: Must have passed at least one year	r of high school cher	mistry or one semester of college chemistry equivale	ent 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 of the classes: MATH 103, 110,						
112, 115,						
CHEM 133L	General Chemistry Sci Maj I Lab	1	Coreg CHEM 131			
CHEM 133L	General Chemistry Sci Maj II	3	C- or better in CHEM 131, 133L;	Fr/Soph		
CHEW 132	General Chemistry our Maj II	0	Coreg CHEM 134L	# 00 mm = 1 mm		
OUEM 4041	Canaral Chamieta, Sai Mai, II I ah	1	Coreq CHEM 132			
CHEM 134L	General Chemistry Sci Maj II Lab	1	Coreq of IEM 102			
011514.004	Control Observation I	3	C- or better in CHEM 161,163L or 131,	Soph		
CHEM 221	Organic Chemistry I	3	133L,132, 134L;Coreq CHEM 223L	Сорп		
		y .	C- or better in CHEM 161,163L or 131,			
CHEM 223L	Organic Chemistry Lab	1	133L132, 134L; Coreg CHEM 221			
			133L132, 134L, Cored Chew 221			
	25 37 25	55-60 total hrs				
NOTE: Two of the	following three course requirements must	have a lab				
	odiversity course selected from:		DIOL 045 054	. Ir		
BIOL 315	Botany	4	BIOL 215, 254	Jr Je		
BIOL 316	Vertebrate Zoology	4	BIOL 254	Jr		
BIOL 317	Invertebrate Zoology	4	BIOL 163, 164	Jr		
BIOL 322	Mammalogy	4	BIOL 215, 254	Jr		
Two courses beve	ond the core requirements from the foll	owing:		1.10		
BIOL 320	Animal Behavior	4	BIOL 254 or P/I	Jr/Sr		
BIOL 344	Evolution	3	BIOL 250	Jr/Sr		
BIOL 360	Principles of Microbiology	4	BIOL 254; CHEM 221, 223L	Jr/Sr		
BIOL 388/488	Riology Tonics	4				

REMINDERS

BIOL 388/488

- Biology majors are expected to take BIOL 163,164, 215, 250, 252 and 254 by the end of the sophomore year.

Biology Topics

- 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.

^{*}Satisfies advanced writing requirement.

NAME:			
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B.S. Degree: Biology Major (for students entering in Fall 2021/Spring 2022) 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	General Education	WHAT	Ecology & Environmental Science Concentration 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:		BIOL 115 [1 hr] BIOL 163 [4 hrs] BIOL 164 [4 hrs] BIOL 215 [4 hrs] BIOL 250 [4 hrs] BIOL 252 [4 hrs] BIOL 254 [4 hrs] BIOL 310 [4 hrs] BIOL 310 [4 hrs] BIOL 325/354/374 [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]
*Enter N	IA (not ap	35 – 41 Total semester hours 120 semester hours required for graduation plicable) if waived upon admission	NOTE: To	CHEM 221 [3 hrs] CHEM 223L [1 hr] wo of the following 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] 66 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.