BIOLOGY MAJOR (BIOLE.BS)

Ecology Concentration

Required Courses		Hrs.	Prereg.	Rec.Yr.
BIOL 115	Intro to Biology Profession	1	Coreg BIOL 163 or BIOL 164	Fr
BIOL 163	Principles of Molecular Biology	4	3334 232 333 332 33	Fr
BIOL 164	Principles of Organismal Biology	4	BIOL 163 recommended	Fr
BIOL 215	Biostatistics	4		
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
		8	MATH 115, ENVS 130 for Env Sci	7.7
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
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One Integrative cou	rse selected from:			
BIOL 305	Toxicology	3	BIOL 151, 152	Jr
BIOL 320	Animal Behavior	4	BIOL 254	Jr
BIOL 344	Evolution	3	BIOL 250	Jr
BIOL 360	Principles of Microbiology	4	BIOL 254; CHEM 221, 223L	Jr
	,			
One Molecular cou	rse selected from			
BIOL 325	Molecular Embryology	4	BIOL 250	Jr/Sr
BIOL 354	Molecular Cell Biology	4	BIOL 254, CHEM 221, 223L	Jr/Sr
BIOL 374	Immunology	4	BIOL or CHEM major	Jr
			5.*c	
BIOL 395	Biology Internship	1	BIOL 254	Jr
	OR			
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
			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 Maj I	3	Coreq CHEM 133L	Fr/Soph
*Prerequ	isite: Must have passed at least one year	of high school chen	nistry or one semester of college chemistry equivale	nt to CHEM 105/107L or
above AN	ND at least one of the following: MATH A	CT score of 20, MAT	H SAT score of 500, grade of C or better in one of th	e classes: MATH 103, 110,
112, 115, 1	100 to 10		X8) =	
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;	Fr/Soph
	TA		Coreq CHEM 134L	12
CHEM 134L	General Chemistry Sci Maj II Lab	1	Coreq CHEM 132	
			CONTROL OF THE PROPERTY OF THE	
CHEM 221	Organic Chemistry I	3	C- or better in CHEM 161,163L or 131,	Soph
			133L,132, 134L;Coreq CHEM 223L	10 Sec 10 Med 19 19 19
CHEM 223L	Organic Chemistry Lab	1	C- or better in CHEM 161,163L or 131,	
	Section 1990 April 199	14-40	133L132, 134L; Coreq CHEM 221	
		55-60 total hrs	22 12 12	
NOTE: Two of the fo	ollowing three course requirements must h	ave a lab		
One additional Bio	diversity course 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
	nd the core requirements from the follo	wing:		
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
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"REMINDERS"

BIOL 388/488

- 1. Biology majors are expected to take BIOL 163,164, 215, 250, 252 and 254 by the end of the sophomore year.
- 2. 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.

Biology Topics

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:			

B.S. Degree: Biology Major (for students entering in Fall 2020/Spring 2021) Ecology 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 '00.

WHAT	WHEN	General Education	WHAT	Ecology WHEN	Concen	tration
		ENGL 101/INDS 106* w/ C (2.0) [3 hrs] ENGL 102/INDS 102* w/ C(2.0)* [3 hrs] COMM 211/INDS 103 w/ C(2.0) [3 hrs] Dept senior seminar/writing course Met by: BIOL 497 [4 hrs] BIOL/CHEM/ENVS/PHSC/PHYS w/ lab /INDS 112 [3-4 hrs] BIOL/CHEM/ENVS/PHSC/PHYS w/ lab /INDS 112 [3-4 hrs] MATH (except 112,141,203,205)/ BIOL 215/PSYC 230/INDS 114 [3-4 hrs] RELG/INDS 111 [3 hrs] PHIL/INDS 110 [3 hrs] INDS 120/INDS 116 [3 hrs] Any literature course/INDS 113[3 hrs] Fine Arts			BIOL 309 BIOL 399 BIOL 497	3 [4 hrs] 4 [4 hrs] 5 [4 hrs] 5 [4 hrs] 2 [4 hrs] 4 [4 hrs] 5 [4 hrs] 6 [6 hrs] 6 hrs] 6 hrs] 7 hrs] 7 hrs] 8
		ART (except 265)/ DANC/MUSC/THRE/ENGL 213/ INDS 107 [3 hrs] OR MUSC/THRE [2 hrs] same discipline [1 hr]			_	CHEM 131 [3 hrs] CHEM 133L [1 hr] CHEM 132 [3 hrs] CHEM 134L [1 hr]
		OR MUSC/THRE [1 hr]				21 [3 hrs] 23L [1 hr]
		same discipline [1 hr] same discipline [1 hr] HIST 100 or 200 level except HIST 201/ INDS 117 [3 hrs] CJUS/ECON/GEOG/GNST/POLS/PSYC/	NOTE: TV	wo of the fo	One add from BIO BIOL 320	ee course requirements must have a lab itional Biodiversity course selected IL 315/316/317/322 [4 hrs] D/344/360/388/488[3-4 hrs] D/344/360/388/488[3-4 hrs]
		SOCI/INDS 104 [3 hrs] US Cultural Studies/INDS 109 [3 hrs] Non-Western Cultural Studies]/		Σ π	66 seme	ster hours
		INDS 108 [3 hrs] EXSC 110/120/121/130/201/205/240 /INDS 105 [3 hrs]	hours in Three h internshi	an acad nours ove ip in the d	emic disc r the lim iscipline.	opproved majors, a maximum of 52 cipline may count toward graduation. nit may count to accommodate an minor may overlap with the required
		120 semester hours required for graduation	credit ho	ours of a s	student's o courses	chosen major. The overlap constraint s that majors or minors MUST take in

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