

## Biology: Ecology, Evol Bio, Organisms 4-Year Pathway 2022-2023

Fall Freshman Courses (14 units total)	Course or GE Title	Units	GE/Major
FYS 191	Comparative Ethnic Experiences	3	F, FYS
MATH 130 (w MATH 30 if needed)	Precalculus (w co-req support course)	5	B4
HCOM 120 or HCOM 125 or (CAD 102+CAD 90)	Critical Reading and Writing	3	A2
CHEM 109	Introductory Chemistry	3	B1
Spring Freshman Courses (15 units total)	Course or GE Title	Units	GE/Major
HCOM 110	Fundamentals of Speaking & Listening	3	A1
MATH 150	Calculus I	4	B4, major
CHEM 110 +CHEM 110L	General Chemistry I & Chem 1 Lab	4+1	B1, B3, major
Any C1 GE course	Arts General Education course	3	C1
Fall Sophomore Courses (15 units total)	Course or GE Title	Units	GE/Major
HCOM200, HCOM202, BIO131 or ENSTU130	Critical Thinking GE	3	A3
CHEM 111 & CHEM 111L	General Chemistry II & Chem II Lab	4+1	Major
PHYS 220 (or BIO 210 & 210L)	Physics I with Lab ( <i>or Molec Bio w/ lab</i> )	4	Major
US History with GE area C2 or F (GE area C2) SBS 114 or (GE area F): HCOM 243 or SBS 249	US History course with GE area C2 or F	3	US History US1 with C2 or F
Spring Sophomore Courses (16 units total)	Course or GE Title	Units	GE/Major
BIO 210 & BIO 210L (or PHYS 220) Whichever not taken previously	Cell & Molec Bio & Animal Physio& Lab ( <i>or Physics 1</i> )	4+1	B2, B3, Major
CHEM 211 & CHEM 211L	Organic Chemistry I & OCHEM 1 lab	3+2	Major
SL210S, ED212S, GS280S, HCOM260S, SBS212S	Civics/Service Learning GE course	3	DCSL, US2&3
HDFS 200, KIN 161, KIN 263, PSY 210	Area E Lifelong Lrng & Self-Devel	3	E
Fall Junior Courses (15 units total)	Course or GE Title	Units	GE/Major
BIO 211 & BIO 211L (211D optional)	Ecology, Evolu, Biodiv & Plants & lab	4+1	Major
STAT 250	Applied Stats for Science & Tech	4	Major
Additional C1 or C2 course if needed	Lower-division Arts or Humanities	3	C1 or C2
Social Science GE course	Lower-division DGSS course	3	DGSS
Spring Junior Courses (16 units total)	Course or GE Title	Units	GE/Major
BIO 340	Ecology	4	UDB, conc core
BIO 330 or BIO 332 or 370 or MSCI 331	Physiology or Development course	3	Conc
BIO 320, 322, 344L, 380, CHEM 350, ENV5 350 or MSCI 350	Research Methods Course	4	Rsch meth
BIO 301	Research & Technical Writing in Biology	2	GWAR, Core
SPAN 340 or 350 or JAPN 340 or 350	UD C with World Culture & languages	3	UDC, WCL
Fall Senior Courses (15 units total)	Course or GE Title	Units	GE/Major
BIO 341	Evolutionary Biol & Population Genetics	3	Conc core
BIO 378S or BIO 379S or ENSTU 349S or ENSTU 369S or ENSTU 394S or MSCI 359S	Upper-division Service learning	3	UDSL, Major
BIO311	Genetics	4	UDB, Major
EEO Integrative Learning Course(s)	EEO Integrative Learning/Capstone	5	Conc
Spring Senior Courses (14 units total)	Course or GE Title	Units	GE/Major
Group A Elective	Major elective from Group A	4	Conc
Group A Elective	Major elective from Group A	3	Conc
Group B Elective	Major elective from Group B	3	Conc
Any upper-division Social Sciences	UD Social Sciences	3	UDD
Elective	Free elective	1	free elective
<b>Total Units BIO EEO 4-yr pathway</b>		<b>120</b>	