

## Biology: Ecology, Evol Bio, Organisms 4-Year Pathway 2023-2024

Fall Freshman Courses (14 units total)		Course or GE Title	Units	GE/Major
FYS 143 or other FYS		Philosophy of Nonviolence	3	C2, FYS
MATH 130 (w/ MATH 30 if needed)		Precalculus (w/ co-req support course)	5	B4
HCOM 110 (or GE area A3)		Fundamentals of Speaking and Listen	3	A1 (or A3)
CHEM 109		Introductory Chemistry	3	B1
Spring Freshman Courses (15 units total)		Course or GE Title	Units	GE/Major
HCOM 125, CAD 101B or (CAD 102 + 90)		Critical Reading and Writing	3	A2
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 (or A1)
CHEM 111 & CHEM 111L		General Chemistry II & Chem II Lab	4+1	Major
PHYS 220 (or BIO 210 & 210L)		Physics I with Lab	4	Major
US History with GE area F HCOM 243 or SBS 249		US History course with GE area F	3	US History US1 with 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	4+1	B2, B3, Major
CHEM 211 & CHEM 211L		Organic Chemistry I & OCHEM 1 lab	3+2	Major
SL210S, ED212S, HCOM260S, SBS212S		Civics/Service Learning GE course	3	DCSL, US2&3
HDFS 200, KIN 161, KIN 263		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, ENVS 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 379S or ENVS 382S or ENSTU 349S or ENSTU 369S or ENSTU 384S 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>	