

Biology: Molecular Biology 4-Year Pathway 2024-2025

Fall Freshman Courses (14 units total)	Course or GE Title	Units	GE/Major
FYS 191 or 143 or other FYS	First Year Seminar w/ GE area F or C2	3	GE area F or 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 (16 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
BIO 211 & BIO 211L (211D optional)	Ecology, Evolu, Biodiv & Plants & lab	4+1	B2, Major
US History with GE area C2 or F SBS 114 or HCOM 243, SBS 249	US History course with GE area C2 or F	3	US Hist US1 w/ C2 or F
Spring Sophomore Courses (17 units total)	Course or GE Title	Units	GE/Major
BIO 210 & BIO 210L	Cell & Molec Bio & Animal Physio& Lab	4+1	Major
CHEM 211 & CHEM 211L	Organic Chemistry I & OCHEM 1 lab	3+2	Major
PHYS 220	Physics I with Lab	4	Major
HDFS 200, KIN 161, KIN 263	Area E Lifelong Learning &Self-Devel	3	E
Fall Junior Courses (16 units total)	Course or GE Title	Units	GE/Major
CHEM 310	Biochemistry I	3	Major
STAT 250	Applied Stats for Science & Tech	4	Major
BIO 330 or BIO 332 or BIO 341 or BIO 370	Physiology or Evolutionary Biol course	3	Concentration
Additional C1 or C2 course (if needed)	Lower-division Arts or Humanities	3	GE C1 or C2
SL210S, ED212S, HCOM260S, SBS212S	Civics/Service Learning GE course	3	DCSL, US 2,3
Spring Junior Courses (14 units total)	Course or GE Title	Units	GE/Major
BIO 311	Genetics	4	UDB, core
BIO 301	Research & Technical Writing in Biology	3	GWAR, core
BIO 320 or BIO 322	Microbiology or Plant Pathology	4	Rsch method
PSY 100 or other Social Science GE course	Lower-division DGSS course	3	DGSS
Fall Senior Courses (14 units total)	Course or GE Title	Units	GE/Major
Major Elective (or course for minor)	Major Elective	4	Major
BIO 378S or BIO 379S	Health Sci Svc Lrn or Biology Svc Learn	3	UDSL, Major
BIO 320, 322, 330,332, 370, 380, 410, 412, 413, 414, 421, 425, 430, 444 or 461; CHEM 350 or 410; MSC1 331	Additional BIO course not previously taken	3-4	Add'l Biology Course
SPAN 340 or 350 or JAPN 340 or 350	UD C with World Culture & languages	3	UDC, WCL
Spring Senior Courses (15 units total)	Course or GE Title	Units	GE/Major
Integrative Learning/Capstone	See catalog	4	Concentration
Major Elective (or course for minor)	Major elective	4	Concentration

Major Elective (or course for minor)	Major elective	4	Concentration
Any upper-division Social Sciences UDD	UD Social Sciences	3	UDD
	Total BIO Molec Biol 4-yr pathway:	121	