

Biology: Molecular Biology 4-Year Pathway

Fall Freshman Courses (14 units total)	Course or GE Title	Units	GE/Major
FYS 146 or 147 or 148	FYS that fulfills GE area C2	3	C2, FYS
MATH 130 (w MATH 30 if needed)	Precalculus (w co-req support course)	5	B4
HCOM 120 or ENSTU 120	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 and Listen	3	A1
MATH 150	Calculus I	4	B4, major
CHEM 110	General Chemistry I	4	B1, major
CHEM 110L	General Chemistry I Lab	1	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 ENSTU131	Critical Thinking GE	3	A3
CHEM 111	General Chemistry II	4	Major
CHEM 111L	General Chemistry II Lab	1	Major
PHYS 220	Physics I with Lab	4	Major
HCOM 251 or 265 or SBS 111 or 112 or 246	US History GE	3	DHIST, US1
Spring Sophomore Courses (16 units total)	Course or GE Title	Units	GE/Major
BIO 210	Cell & Molec Bio & Animal Physiol	4	B2, Major
BIO 210L	Cell & Molec Bio & Animal Physiol LAB	1	B3, Major
CHEM 211	Organic Chemistry I	5	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	Ecology, Evolution, Biodiv & Plants	4	Major
BIO211L	Ecology, Evolution, Biodiv & Plants Lab	1	Major
STAT 250	Applied Stats for Science & Tech	4	Major
Additional C1 or C2 course	Lower-division Arts or Humanities	3	C1 or C2
PSY 100 or other Social Science GE course	Lower-division DGSS course	3	DGSS
Spring Junior Courses (16 units total)	Course or GE Title	Units	GE/Major
BIO 311	Genetics	4	UDB, core
BIO 310 or CHEM 310	Biochemistry I	3	Conc
BIO 320 or BIO 322	Microbiology or Plant Pathology	4	Conc
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 (14 units total)	Course or GE Title	Units	GE/Major
BIO 330 or BIO 332 or BIO 341 or BIO 370	Physiology or Evolutionary Biol course	3	Conc
BIO 378S or BIO 379S	Health Sci Svc Lrn or Biology Svc Learn	3	UDSL, Major
BIO 320 or 322 or 344L or 380	Additional BIO Research Methods	4	Conc
BIO 421 + BIO 492 or other Integ Learning	Integrative Learning/Capstone	4	Conc
Spring Senior Courses (15 units total)	Course or GE Title	Units	GE/Major
Concentration Restricted Elective	Concentration elective	4	Conc
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	1	Conc
HCOM 343 353,369,393, HDFS 320,321; LS 310,362; PH417; or SBS 304,320,364	UD Social Science with Ethnic Studies	3	UDD, ES
Total BIO Molec Biol 4-yr pathway:		120	