



Biomedical Science Major

credit min: 58

Biology Core Courses (14 credit minimum)

BIO 105 OR BIO 108	Biological Concepts (NS) (XL) Honors: Concepts in Biology (NS) (XL)	B F	4 5	Tally _____ _____ _____ _____ _____
BIO 323	Molecular & Cell Biology <i>pre-req: 105 + Chem105 or Chem 101 & 102 >=B</i>	B	3	
BIO 343	Genetics (NS) <i>pre-req: BIO 323</i>	B	4	
BIO 349	Ecology & Evolution <i>pre-req: BIO 105</i>	B	3	
BIO 491	Senior Survey <i>take last semester</i>	B	0	

Additional Required Biology Courses (12 credits minimum)

BIO 211	Human Anatomy (NS)(XL) <i>BIO 105 w/ C</i>	B	4	_____
BIO 233 OR BIO 309	Microbial Survey (NS)(XL) Microbiology (NS) <i>BIO 105 w/ C</i> <i>BIO 105 & 1 yr. gen chem</i>	B B	4 5	_____ _____
BIO 319 OR BIO 420 OR BIO 450	General Animal Physiology (NS) Medical Human Physiology Adv Microbiology: Modern Research Approaches (NS) <i>pre-req: BIO 309 OR 233</i>	F S S	5 4 5	_____ _____ _____

Required Chemistry and Math Courses (24-25 credits)

CHEM 105	General Chemistry I (NS) (XL) <i>pre/co-req: math 104</i>	B	5	_____
CHEM 106	General Chemistry II (NS) (XL) <i>pre-req chem 105 or Chem 101&102 w/ an A</i>	B	5	_____ _____
CHEM 234	Organic Chem I lab <i>co-req chem 235</i>	B	1	_____
CHEM 235	Organic Chem I (NS) <i>chem 106 >=C, co-req chem 234</i>	B	3	_____
CHEM 334	Organic Chem II lab <i>co-req chem 335</i>	B	1	_____
CHEM 335	Organic Chem II (NS) <i>chem 235 >=C, co-req chem 334</i>	B	3	_____
CHEM 303	Biochemistry: Clinical Emphasis <i>chem 335</i>	B	3	_____
MATH 201 OR MATH 171	Applied statistics Calculus I <i>math 104</i> <i>math 104</i>	B B	3 5	_____ _____

Electives: 8 credits minimum (choose from list on the back page)
only if not used to fill preceding requirements

<u>Course #</u>	<u>Course Names</u>	<u>Pre-requisites</u>	<u>Term</u>	<u>Credits</u>
BIO 300	BIO internship	consent	F/S/Su	1-6
BIO 301	Micro Internship	consent	F/S/Su	1-6
BIO 302	EH internship	consent	F	1-6
BIO 303	Epidemiology	105 or consent	F	3
BIO 305	Biology of Mammals	105 or consent	S	3
BIO 306	Neurobiology	105	S	3
BIO 312	Med Bact Lec	105 + 1 yr gen chem, 309, 323, 341	S	2
BIO 313	Med Bact Lab	105 + 1 yr gen chem, 309, 323, 341	S	2
BIO 315	Virology	323 or consent	S	3
BIO 316	Development & Stem Cells	323 or consent	S	3
BIO 332	Entomology	105 or consent	F	3
BIO 338	Environmental tox	105 or consent	S	3
BIO 339	Pub hlth and Food Micro	309 + Chem106	F	3
BIO 341	Immunology	323 + Chem 106	F	3
BIO 354	Parasitology	105 + 230	S	3
BIO 372	Cancer Biology	323 + chem 106	S	3
BIO 374	Cell/Immunol Lab (mol lab)	323, 341, 372 + chem 106	F	3
BIO 390	Applied Molecular techniques	309 or 323 or consent	S	2
BIO 446	Independent Study	3.0 GPA + 60cr + consent	F/S/Su	1-3
BIO 456	Related Readings	3.0 GPA + 60cr + consent	F/S/Su	1-3
BIO 474	Honors Thesis	Honors Program, 60cr	F/S/Su	1-6

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