

# COURSE OFFERINGS for BIOLOGY STUDENTS – Summer 2017 – Spring 2020

UPDATED - 04/18/19

Course	Course Title	Creds	DEC	SBC	BIO MAJ/MIN	SU17	F17	W18	SP18	SU18	F18	W19	SP19	SU19	F19	W20	SP20
BIO 101	Human Biology (will become ANP 101 F19)	3	E	SNW	No/ No	SU I 17				SU I 18				SU I 19	F19		
BIO 103	Introduction to Biotechnology	3	E	SNW	No/ No		F17				F18				F19		
BIO 113	General Ecology	3	E	SNW	No/ No	SU I 17											
BIO 114	Dinosaur Paleontology	3	E	SNW	No/ No	SU II 17								SU II 19			
BIO 115	Evolution and Society	3	E	SNW	No/ No		F17										
BIO 201	Fundamentals of Biology: Organisms to Ecosystems	3	E	SNW	Yes/ Yes	SU I EXT 17 online	F17		SP18	SU I EXT 18 online	F18		SP19	SU I EXT 19 online	F19		SP20
BIO 202	Fundamentals of Biology: Molecular and Cellular Biology	3	E	STEM+	Yes/ Yes	SU I EXT 17 online	F17		SP18	SU I EXT 18 online	F18		SP19	SU I EXT 19 online	F19		SP20
BIO 203	Fundamentals of Biology: Cellular and Organ Physiology	3	E	STEM+	Yes/ Yes	SU I 17	F17		SP18	SU I 18	F18		SP19	SU I 19	F19		SP20
BIO 204	Fundamentals of Scientific Inquiry in the Biological Sciences I	2			Yes/ Yes	SU I 17	F17			SU I 18	F18			SU I 19	F19		SP20
BIO 205	Fundamentals of Scientific Inquiry in the Biological Sciences IIA	2			Yes/ Yes				SP18				SP19	SU II 19			SP20
BIO 207	Fundamentals of Scientific Inquiry in the Biological Sciences IIB	2			Yes/ Yes	SU II 17			SP18	SU II 18			SP19				
BIO 208	Cell, Brain, Mind	3	H	STAS	No/ No				SP18				SP19				SP20
BIO 211	Statistics & Data Analysis	3	C	STEM+		SU I 17	F17		SP18		F18		SP19	SU II 19	F19		SP20
BIO 299	Advanced Microbiology for Nursing and Allied Health (formerly BIO 266 Allied Health Microbiology Laboratory, 3 credits)	4			No/ No	SU I EXT 17		W18		SU I EXT 18		W19		SU I EXT 19		W20	
BIO 306	Principles of Virology	3		ESI/STEM+	Yes/ Yes					SU II EXT 18							
BIO 310	Cell Biology	3			Yes/ Yes	SU I EXT and SU II EXT 17 online			SP18	SU I EXT and SU II EXT 18 online			SP19	SU II EXT 19 online			SP20
BIO 311	Techniques in Molecular and Cellular Biology	3		ESI	Yes/ Yes												
BIO 312	Bioinformatics and Computational Biology	3		ESI/TECH	Yes/ Yes		F17				F18				F19		
BIO 314	Cancer Biology	3			Yes/ Yes		F17			SU II EXT 18 online	F18			SU II EXT 19 online	F19		
BIO 315	Microbiology	3			Yes/ Yes	SU I 17			SP18	SU I 18			SP19	SU I 19			SP20
BIO 316	Molecular Immunology	3			Yes/ Yes	SU I 17				SU I 18				SU I 19			
BIO 317	Principles of Cellular Signaling	3			Yes/ Yes	SU II 17	F17				F18				F19		
BIO 319	Landscape Ecology Laboratory	3		ESI	Yes/ Yes		F17				F18				F19		
BIO 320	General Genetics	3			Yes/ Yes	SU II 17			SP18	SU I 18			SP19	SU I EXT 19			SP20
BIO 321	Ecological Genetics	3			Yes/ Yes		F17				F18				F19		
BIO 325	Animal Development	3			Yes/ Yes		F17				F18				F19		
BIO 327	Developmental Genetics Laboratory	3		ESI	Yes/ Yes				SP18				SP19				SP20
BIO 328	Mammalian Physiology	3			Yes/ Yes				SP18				SP19				SP20
BIO 332	Computational Modeling of Physiological Systems	3			Yes/ Yes				SP18				SP19				SP20
BIO 334	Principles of Neurobiology	3			Yes/ Yes	SU I 17			SP18	SU II 18			SP19	SU II 19			SP20
BIO 335	Neurobiology Laboratory	3		ESI	Yes/ Yes		F17				F18				F19		
BIO 336	Conservation Biology	3	H	STAS	Yes/ Yes		F17				F18				F19		
BIO 337	Neurotransmission and Neuromodulation	3			Yes/ Yes				SP18				SP19				SP20
BIO 338	Synapse to Circuit: Self-organization of the Brain	3			Yes/ Yes		F17				F18				F19		
BIO 339	Molecular Development of the Nervous System	3			Yes/ Yes				SP18				SP19				SP20
BIO 340	Zoology	4			Yes/ Yes												
BIO 341	Plant Diversity	4			Yes/ Yes								SP19				

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<b>BIO 342/343</b>	Invertebrate Zoology/Lab (formerly BIO 343, 4 credits)	5		STEM+	Yes/ Yes		F17				F18				F19		
<b>BIO 344</b>	Chordate Zoology	4			Yes/ Yes	SU I 17			SP18	SU I 18			SP19	SU I 19			SP20
<b>BIO 348</b>	Diversity and Evolution of Reptiles and Amphibians	3			Yes/ Yes												
<b>BIO 350</b>	Darwinian Medicine	3	H	STAS	Yes/ Yes		F17										
<b>BIO 351</b>	Ecology	3	H	STEM+	Yes/ Yes		F17				F18				F19		
<b>BIO 352</b>	Ecology Laboratory	3		ESI	Yes/ Yes		F17				F18				F19		
<b>BIO 353</b>	Marine Ecology	3		STEM+	Yes/ Yes				SP18				SP19	SU I 19			SP20
<b>BIO 354</b>	Evolution	3			Yes/ Yes	SU I 17 online	F17			SU I 18 online	F18			SU I 19 online	F19		
<b>BIO 356</b>	Applied Ecology & Conservation Biology Laboratory	2		ESI	Yes/ Yes	SU I 17			SP18	SU I 18			SP19	SU I 19			SP20
<b>BIO 358</b>	Biology and Human Social and Sexual Behavior	3	H	ESI/ STAS	Yes/ Yes	SU I EXT 17 online			SP18	SU I EXT 18 online			SP19	SU I EXT 19 online			SP20
<b>BIO 361</b>	Biochemistry I	3			Yes/ Yes	SU I EXT online and SU II 17	F17			SU I EXT online and SU II 18	F18			SU I EXT online and SU II EXT 19	F19		SP20
<b>BIO 362</b>	Biochemistry II	3			Yes/ Yes				SP18				SP19				SP20
<b>BIO 364</b>	Laboratory Techniques in Cancer Biology	3			Yes/ Yes		F17				F18				F19		
<b>BIO 365</b>	Biochemistry Laboratory	2		ESI	Yes/ Yes		F17				F18				F19		
<b>BIO 366</b>	Molecular Microbiology Laboratory	4			Yes/ Yes		F17				F18				F19		
<b>BIO 367</b>	Molecular Diversity Laboratory	3			Yes/ Yes								SP19				
<b>BIO 368</b>	Food Microbiology	2			Yes/ Yes												
<b>BIO 371</b>	Restoration of Aquatic Ecosystems	4	H	STAS	Yes/ Yes		F17				F18						
<b>BIO 380</b>	Entomology	4			Yes/ Yes												
<b>BIO 385</b>	Plant Ecology	3	H	STAS	Yes/ Yes				SP18								SP20
<b>BIO 386</b>	Ecosystem Ecology and the Global Environment	3	H	STAS	Yes/ Yes				SP18				SP19				SP20
<b>BIO 458</b>	Speak Effectively Before an Audience	0		SPK		SU I and SU II 17	F17		SP18	SU I and SU II 18	F18		SP19	SU I and SU II 19	F19		SP20
<b>BIO 459</b>	Write Effectively in Biology	0		WRD		SU I and SU II 17	F17		SP18	SU I and SU II 18	F18		SP19	SU I and SU II 19	F19		SP20
<b>BIO 511</b>	Topics in Biotechnology	3			Yes/ Yes	SU I 17				SU I 18				SU I 19			
<b>BIO 515</b>	Current Topics in Microbiology	3			Yes/ Yes												
<b>AMS 210</b>	Applied Linear Algebra	3		STEM+	Yes/ <b>No</b>	SU II 17	F17	W18	SP18	SU II 18	F18	W19	SP19	SU II 19	F19	W20	SP20
<b>AMS 261</b>	Applied Calculus III	4		STEM+	Yes/ <b>No</b>	SU I 17	F17		SP18	SU I 18	F18		SP19	SU I 19	F19		SP20
<b>AMS 333</b>	Mathematical Biology	3		EXP+/ WRD	Yes/ <b>No</b>		F17				F18				F19		
<b>ANP 304</b>	Ecology: Linking People and Nature/ Turkana Basin	3	E	SNW	Yes/ <b>No</b>		F17		SP18				SP19				SP20
<b>ANP 305</b>	Vertebrate Paleontology and Paleoeology/ Turkana Basin	3		SNW	Yes/ <b>No</b>		F17		SP18				SP19				SP20
<b>ANP 306</b>	Human Evolution/ Turkana Basin	3		STEM+	Yes/ <b>No</b>		F17		SP18				SP19				SP20
<b>ANP 350</b>	Methods in Studying Primates	3			Yes/ <b>No</b>		F17			SU I 18	F18			SU I 19	F19		
<b>ANP 391</b>	Topics in Biological Anthropology	3			Yes/ <b>No</b>				SP18				SP19				SP20
<b>ATM 305</b>	Global Atmospheric Change	3	E	STEM+	Yes/ <b>No</b>				SP18				SP19				SP20
<b>ATM 397</b>	Air Pollution and its Control	3		CER	Yes/ <b>No</b>				SP18				SP19				SP20
<b>BCP 401</b>	Principles of Pharmacology	4			Yes/ <b>No</b>		F17				F18				F19		
<b>BME 100</b>	Introduction to Biomedical Engineering	3		TECH	Yes/ <b>No</b>	SU II 17	F17			SU II 18	F18			SU I 19	F19		
<b>BME 301</b>	Biophotonics (formerly Bioelectricity)	3			Yes/ <b>No</b>						F18		SP19		F19		SP20
<b>BME 303</b>	Biomechanics	3	H	STAS	Yes/ <b>No</b>		F17				F18				F19		
<b>BME 304</b>	Genetic Engineering	3	H	STAS	Yes/ <b>No</b>				SP18		F18		SP19		F19		SP20

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BME 311	Fundamentals of Macro to Molecular Bioimaging	3			Yes/ <b>No</b>		F17		SP18		F18		SP19		F19		SP20
BME 313	Bioinstrumentation	3			Yes/ <b>No</b>		F17				F18				F19		
BME 353	Introduction to Biomaterials	3			Yes/ <b>No</b>		F17				F18				F19		
BME 371	Biological Microfluidics	3			Yes/ <b>No</b>		F17				F18				F19		
BME 381	Nanofabrication in Biomedical Applications	3			Yes/ <b>No</b>				SP18				SP19				SP20
BME 402	Contemporary Biotechnology	3			Yes/ <b>No</b>		F17				F18				F19		
BME 404	Essentials of Tissue Engineering	3			Yes/ <b>No</b>				SP18				SP19				SP20
BME 481	Biosensors	3			Yes/ <b>No</b>		F17				F18				F19		
CHE 346	Biomolecular Structure and Reactivity	3			Yes/ <b>No</b>		F17				F18				F19		
CSE 130	Introduction to Programming in C	3			Yes/ <b>No</b>												
EBH 302	Human Genetics (formerly BIO 302)	3			Yes/ Yes		F17				F18				F19		
EBH 316	Evolution of the Human Brain (formerly ANP 316)	3	E	STEM+	Yes/ <b>No</b>								SP19				SP20
EBH 359	Behavioral Ecology (formerly BIO 359)	3	E	STEM+	Yes/ Yes		F17				F18				F19		
EBH 370	Advanced Human Genetics (formerly BIO 303)	3		TECH	Yes/ Yes												
EBH 380	Genomics (formerly BIO 304)	3			Yes/ Yes		F17				F18				F19		
EBH 381	Genomics Laboratory (formerly BIO 305)	3		TECH	Yes/ Yes				SP18								
ESE 271	Electrical Circuit Analysis	4			Yes/ <b>No</b>	SU I 17	F17		SP18	SU I 18	F18		SP19	SU I 19	F19		SP20
ESG 111	Programming for Engineers	3			Yes/ <b>No</b>		F17		SP18	SU I 18	F18		SP19	SU I 19	F19		SP20
MAR 301	Environmental Microbiology	4			Yes/ <b>No</b>		F17				F18				F19		
MAR 302	Marine Microbiology and Microbial Ecology	3			Yes/ <b>No</b>				SP18				SP19				SP20
MAR 303	Long Island Marine Habitats	4		STEM+	Yes/ <b>No</b>		F17				F18				F19		
MAR 305	Experimental Marine Biology	3		STEM+	Yes/ <b>No</b>		F17				F18				F19		
MAR 315	Marine Conservation	3	H	ESI/ STAS	Yes/ <b>No</b>				SP18				SP19				SP20
MAR 318	Engineering Geology and Coastal Processes	3		STEM+	Yes/ <b>No</b>												
MAR 320	Limnology	4		STEM+	Yes/ <b>No</b>				SP18				SP19				SP20
MAR 333	Coastal Oceanography	3	H	STEM+	Yes/ <b>No</b>				SP18				SP19				SP20
MAR 366	Plankton Ecology	3			Yes/ <b>No</b>												
MAR 370	Marine Mammals	3			Yes/ <b>No</b>						F18		SP19				SP20
MAR 373	Marine Apex Predators: Ecology and Conservation	3			Yes/ <b>No</b>		F17						SP19				SP20
MAR 375	Marine Mammal and Sea Turtle Rehabilitation	3			Yes/ <b>No</b>				SP18								
MAR 376	Biology and Conservation of Sea Turtles	3			Yes/ <b>No</b>		F17										
MAR 377	Biology and Conservation of Seabirds	3			Yes/ <b>No</b>				SP18				SP19				SP20
MAR 380	Ichthyology	3		ESI/ WRTD	Yes/ <b>No</b>		F17				F18				F19		
MAR 384	Diseases of Aquatic Organisms	3		STEM+	Yes/ <b>No</b>				SP18				SP19				SP20
MAR 386	Ecosystem Science for Ecosystem Science for Fisheries Management	3			Yes/ <b>No</b>		F17										
MAR 388	Tropical Marine Ecology	4		ESI/ EXP+/ STEM+	Yes/ <b>No</b>			W18				W19				W20	
MEC 260	Engineering Statics	3			Yes/ <b>No</b>		F17		SP18		F18		SP19		F19		SP20

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RELATED COURSE OFFERINGS:																	
Course	Course Title	Creds	DEC	SBC		SU17	F17	W18	SP18	SU18	F18	W19	SP19	SU19	F19	W20	SP20
AMS 110	Probability and Statistics in the Life Sciences	3		QPS		SU I 17	F17	W18	SP18	SU II 18	F18	W19	SP19	SU II 19	F19	W20	SP20
AMS 151	Applied Calculus I	3	C	QPS		SU II 17	F17	W18	SP18	SU II 18	F18	W19	SP19	SU II 19	F19	W20	SP20
AMS 161	Applied Calculus II	3	C	QPS		SU I 17	F17	W18	SP18	SU I 18	F18	W19	SP19	SU I 19	F19	W20	SP20
AMS 310	Survey of Probability and Statistics	3		STEM+		SU I 17	F17	W18	SP18	SU I 18	F18	W19	SP19	SU I 19	F19	W20	SP20
CHE 129	General Chemistry IA	4	E	SNW			F17				F18				F19		
CHE 130	Problem Solving in General Chemistry	1					F17				F18				F19		
CHE 131	General Chemistry IB	4	E	SNW		SU I 17	F17		SP18	SU I 18	F18		SP19	SU I 19	F19		SP20
CHE 132	General Chemistry II	4	E	SNW		SU II 17	F17		SP18	SU II 18	F18		SP19	SU II 19	F19		SP20
CHE 133	General Chemistry Laboratory I	1				SU I 17	F17			SU I 18	F18	W19		SU I 19	F19	W20	
CHE 134	General Chemistry Laboratory II	1				SU II 17			SP18	SU II 18			SP19	SU II 19			SP20
CHE 152	Molecular Science I	4	E	SNW			F17				F18				F19		
CHE 154	Molecular Science Laboratory I	2					F17				F18				F19		
CHE 301	Physical Chemistry I	4		STEM+			F17				F18				F19		
CHE 312	Physical Chemistry for the Life Sciences	3		STEM+		SU I 17			SP18	SU I 18			SP19	SU I 19			SP20
CHE 321	Organic Chemistry I	4		STEM+		SU I 17	F17			SU I 18	F18			SU I 19	F19		
CHE 322	Organic Chemistry IIA	4				SU II 17			SP18	SU II 18			SP19	SU II 19			SP20
CHE 326	Organic Chemistry IIB	4															
CHE 327	Organic Chemistry Laboratory	2				SU I 17	F17	W18	SP18	SU I 18	F18	W19	SP19	SU I 19	F19	W20	SP20
CHE 331	Molecular Science II	4		STEM+					SP18				SP19				SP20
CHE 332	Molecular Science III	4					F17				F18				F19		
CHE 383	Introductory Synthetic and Spectroscopic Laboratory Techniques	2		ESI					SP18				SP19				SP20
EBH 230	Computer-based Biostatistics (formerly ANP 230)	4	C	QPS			F17				F18				F19		
MAP 103	Proficiency Algebra	3	S1			SU II 17	F17		SP18	SU II 18	F18		SP19	SU II 19	F19		SP20
MAT 123	Precalculus	3	C	QPS		SU I and SU II 17	F17	W18	SP18	SU I and SU II 18	F18	W19	SP19	SU I and SU II 19	F19	W20	SP20
MAT 125	Calculus A	3	C	QPS		SU I and SU II 17	F17		SP18	SU I and SU II 18	F18		SP19	SU I and SU II 19	F19		SP20
MAT 126	Calculus B	3	C	QPS		SU I and SU II 17	F17		SP18	SU I and SU II 18	F18		SP19	SU I and SU II 19	F19		SP20
MAT 127	Calculus C	3	C	QPS		SU II 17	F17		SP18	SU II 18	F18		SP19	SU II 19	F19		SP20
MAT 131	Calculus I	4	C	QPS		SU I 17	F17		SP18	SU I 18	F18		SP19	SU I 19	F19		SP20
MAT 132	Calculus II	4	C	QPS		SU II 17	F17		SP18	SU II 18	F18		SP19	SU II 19	F19		SP20
MAT 141	Analysis I	4	C	QPS			F17										
MAT 142	Analysis II	4		QPS					SP18								
MAT 171	Accelerated Single-Variable Calculus	4	C	QPS													
PHY 121/123	Physics for the Life Sciences I/Lab I	4	E	SNW		SU I 17	F17		SP18	SU I 18	F18			SU I 19	F19		
PHY 122/124	Physics for the Life Sciences II/Lab II	4	E	SNW		SU II 17	F17		SP18	SU II 18			SP19	SU II 19			SP20
PHY 125	Classical Physics A	4	E	SNW			F17		SP18		F18		SP19		F19		SP20
PHY 126	Classical Physics B	3	E	SNW		SU I 17	F17			SU I 18	F18			SU I 19	F19		
PHY 127	Classical Physics C	3	E	SNW					SP18				SP19	SU II 19			SP20
PHY 131	Classical Physics I	3	E	SNW		SU I 17	F17		SP18	SU I 18	F18		SP19	SU I 19	F19		SP20
PHY 132	Classical Physics II	3	E	SNW		SU II 17	F17		SP18	SU II 18	F18		SP19	SU II 19	F19		SP20
PHY 133	Classical Physics Laboratory I	1				SU I 17	F17		SP18	SU I 18	F18		SP19	SU I 19	F19		SP20
PHY 134	Classical Physics Laboratory II	1				SU II 17	F17		SP18	SU II 18	F18		SP19	SU II 19	F19		SP20
PHY 141	Classical Physics I: Honors	4	E	SNW							F18				F19		
PHY 142	Classical Physics II: Honors	4	E	SNW									SP19				SP20