Drexel University

Department of Biology

Major Sheet for Biological Sciences – Cell/MolBio/Genetics/Biochem Concentration

Name		Student Number Biology Required Courses (36 credits)				
Humanities and Social Sciences (33 credits)						
ENGL 101 3	Exp Writing and R	eading	BIO	122 4	.5 Cells & Genetics	
ENGL 102 3	Personal Writing a	nd Reading	BIO	124 4	.5 Evolution & Org Diversity	
ENGL 103 3	Analytical Writing	and Reading	BIO	126 4	5 Physiology & Ecology	
COM 230 3	Techniques of Spe	aking	BIO	217 4	Evolution	
COM 310 3			BIO	218 4	Principles of Molecular Biology	
PHIL 251 3 Ethics			BIO	219 2	2.5 Techniques in Molecular Biology	
UNIV 101 1	The Drexel Experi	ence (Fall)	BIO	224 4	Form, Func & Evol of Vertebrates	
UNIV 101 2	The Drexel Experi	The Drexel Experience (Winter)		225 2	Vertebrate Bio & Evol Lab	
	•		BIO	471 2	Seminar in Biological Science	
II	C' - 1 C - ! E1'	(0 1'42)	BIO	472 2		
Humanities and	Social Science Electi	ves (9 credits)	BIO	473 2		
			A.) CMGB Concentration Requirements (13 credits)			
			BIO	214 3	Principles of Cell Biology	
			BIO	244 3	Genetics OR BIO 444 Human Genetics	
Science, Techno	ology & Human Affair	rs Elective (3 credits)	BIO	270 3	Developmental Biology	
			BIO	311 4	Metabolism	
Choose from:			B.) CM	GB Cond	centration Electives (min 4 courses, 12 crs)	
ANTH 210	HIST 290	PHIL 341	Cell/Mol	Bio/Gen	netics/Biochemistry Elective (2 courses)	
HIST 280	HIST 292	PHIL 351				
HIST 281	ENGL 300	PHIL 361				
HIST 285	ENGL 302	PSCI 371				
HIST 286	SOC 235		Organisn	nal/Physi	ology Elective (1 course)	
		CJ 279		•		
NFS 446	BIO 212	CJ 378	— — —	/C 1		
Mathematics and	Statistics (18 credits)	EVOI DIO	Ecology	Elective (1 course)	
MATH 101 4	Intro to Analysis I					
MATH 102 4	Intro to Analysis II		α .		(
MATH 239 4		Sci OR MATH 123	C. Labor	ratory co	ourses (minimum of 2 courses, 4 credits)	
MATH 410 3	Scientific Data An					
MATH411 3	Scientific Data An	alysis II				
Physical Sciences	(42 credits)					
CHEM 101 3.5	5 General Chemistry		E E	. (2	4 14 1 0	
CHEM 102 4.:			Free Ele	ectives (2	4 credits – minimum 8 courses)	
CHEM 103 5	General Chemistry III					
CHEM 241 4	Organic Chemistry I			_		
CHEM 242 4		Organic Chemistry II				
CHEM 243 3		Organic Chemistry III				
CHEM 244 3	•					
CHEM 245 3 Organic Chemistry II Lab		 -				
PHYS 152 4 Introductory Physics I						
PHYS 153 4 Introductory Physics II						
PHYS 154 4	Introductory Physi	cs III				
Co-op Placements	S					

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Cell/MolBio/Genetics/Biochem CONCLELECTIVES	ENTRATION				
		DNYG 071 D' 171.'. W. 11	2 114		
Cell/Mol Bio/Genetics/Biochem Electives Pick two of the following		ENVS 271 Dinosaurs and Their World	3 credits 3 credits		
BIO 231 Cell Physiology	3 credits	ENVS 284 Phys and Pop Ecology ENVS 286 Comm and Ecosys Ecology	3 credits		
BIO 244 Genetics	3 credits	ENVS 322 Tropical Ecology	3 credits		
BIO 314 Pharmacology	3 credits	ENVS 322 Tropical Field Studies	3 credits		
BIO 318 Biology of Cancer	3 credits	ENVS 330 Aquatic Ecology	3 credits		
BIO 331 Bioinfomatics I	3 credits	ENVS 336 Terrestrial Ecology*	3 credits		
BIO 332 Bioinformatics II	3 credits	ENVS 338 Biodiversity and Conservation			
BIO 346 Stem Cell Research	3 credits	ENVS 360 Evo-Devo	3 credits		
BIO 404 Struct & Func of Biomolecules BIO 413 Genomics	4 credits 3 credits	ENVS 364 Animal Behavior	3 credits		
BIO 415 Proteins	3 credits	ENVS 375 Invertebrate Paleontology	4 credits		
BIO 421 Biomembranes	3 credits	ENVS 388 Marine Field Methods*	5 credits		
BIO 430 Cell Biology of Disease	3 credits	ENVS 390 Marine Ecology	3 credits		
BIO 433 Advanced Cell Biology	3 credits	ENVS 441 Iss in Global Change I: Sem	2 credits		
BIO 444 Human Genetics	3 credits	ENVS 476 Paleobotany	3 credits		
BIO 445 Microbial Genetics	5 credits	ENVS 477 Vertebrate Paleontology	3 credits		
BIO 447 Adv Genetics & Molecular Bio	3 credits	ENVS 520 Fld Mthds Paleoecology	3 credits		
BIO 451 Genetic Reg Development	3 credits	ENVS 382 Field Botany: NJ Pine Barrens*			
BIO 462 Biology of Neuron Function BIO 463 Mol Mech of Neurodegeneration	3 credits 3 credits	ENVS 383 Ecology of NJ Pine Barrens*	5 credits		
BIO 465 Neurobiology of Disease	3 credits	Ervis coe Ecology of the Pairens	o crearis		
BIO 498 Independent Study (by permissi		Laboratory Electives			
210 to marpendent study (c) permissi	on or department)	Pick two of the following			
		BIO 202 Human Physiology Laboratory	2 credits		
Organismal/Physiology Electives		BIO 215 Tech Cell Biology	2 credits		
Pick one of the following		BIO 222 Microbiology Lab ⁺	2 credits		
BIO 201 Human Physiology I	4 credits	BIO 255 Invert Morph & Phys ⁺	2 credits		
BIO 221 Microbiology ⁺	3 credits	BIO 256 Vertebrate Morph & Phys*	5 credits		
BIO 223 Parasitology	3 credits	BIO 271 Developmental Bio Lab	2 credits		
BIO 254 Invertebrate Morph & Phys ⁺	3 credits	BIO 306 Biochemistry Laboratory	2 credits		
BIO 256 Vertebrate Morph & Phys*	5 credits	BIO 313 Comp Physiology Lab	2 credits		
BIO 260 Plant Biology I	4 credits	BIO 387 Gross Anatomy Lab+	2 credits		
BIO 284 Biology of Stress	3 credits	BIO 406 Comp Biochemistry Laboratory	2 credits		
BIO 310 Comparative Physiology	3 credits	BIO 427 Immunology Lab	2 credits		
BIO 322 Mycology	4.5 credits	BIO 497 Research (by permission of dept)	0.5 - 12 credits		
BIO 368 Embryology	4 credits	ENVS 285 Population Ecology Lab	2 credits		
BIO 370 Teratology	3 credits	ENVS 287 Community Ecology Lab	2 credits		
BIO 386 Gross Anatomy ⁺	3 credits	ENVS 336 Terrestrial Ecology *	5 credits		
BIO 412 Biology of Aging	3 credits	ENVS 365 Animal Behavior Lab	2 credits		
BIO 420 Virology	3 credits	ENVS 382 Field Botany: NJ Pine Barrens *	* 5 credits		
BIO 426 Immunology	3 credits	ENVS 383 Ecology of NJ Pine Barrens*	5 credits		
ENVS 392 Ichthyology & Herpetology	3 credits	ENVS 388 Marine Field Methods *	5 credits		
ENVS 431 Epidemiology	3 credits				
		* Have both a lecture and laboratory component- 3 credits apply to lecture;			
		2 credits apply to lab ** Have both a lecture and laboratory component- 2 credits apply to lecture; 2			
Evolutionary Bio/Ecology Electives		credits apply to lab	cans appropriate focusio, 2		
Pick one of the following	2 14.	+ Lecture and lab must be taken together			
ENVS 230 General Ecology	3 credits	Pre-requisites must be met before taking a	course		
ENVS 270 History of Life on Earth	3 credits				

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