Drexel University

Department of Biology

Major Sheet for Biological Sciences – Ecology/Evolutionary Biology/Paleobiology Concentration

Name			Student Number
	.16. /22 ***		BLL B LLC (24 PL)
Humanities and Social Sciences (33 credits))	Biology Required Courses (36 credits)
ENGL 101 3	Exp Writing and Reading		BIO 122 4.5 Cells & Genetics
ENGL 102 3	Personal Writing and Reading		BIO 124 4.5 Evolution & Org Diversity
ENGL 103 3			BIO 126 4.5 Physiology & Ecology
COM 230 3 Techniques of Speaking		5	BIO 217 4 Evolution
COM 310 3 Technical Writing			BIO 218 4 Principles of Molecular Biology
PHIL 251 3 Ethics			BIO 219 2.5 Techniques in Molecular Biology
	UNIV 101 1 The Drexel Experience (Fall)		BIO 224 4 Form, Func & Evol of Vertebrates
UNIV 101 2 The Drexel Experience (Winter)			BIO 225 2 Vertebrate Bio & Evol Lab
			BIO 471 2 Seminar in Biological Science
Humanities and Social Science Electives (9 credits)			BIO 472 2 Seminar in Biological Science
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			A.) Eco/Evol Bio/Paleo Concentration Requirements
			(4 courses, minimum 13 crs)
Caianaa Taabaala	acre & Human Affaira Ela	nativa (2 anadita)	ENVS 270 4 History of Life on Earth
Science, Technolo	ogy & Human Affairs Ele	ective (5 credits)	And choose three of the following courses
			ENVS 230 3 General Ecology
Choose from:			ENVS 272 4 Physical Geology
			ENVS 284 3 Phys & Population Ecology
ANTH 210		IIL 341	ENVS 286 3 Comm & Ecosystem Ecology
HIST 280	HIST 292 PH	IIL 351	ENVS 326 3 Molecular Ecology
HIST 281	ENGL 300 PH	IIL 361	ENVS 360 3 Evo-Devo
HIST 285	ENGL 302 PS	CI 371	ENVS 375 3 Invertebrate Paleontology
HIST 286	SOC 235 CJ	279	ENVS 477 3 Vertebrate Paleontology
NFS 446		378	
			B.) Eco/Evo/Paleo Concentration Electives
Mathematics and Statistics (18 credits)			(min. 4 courses, 12 crs)
MATH 101 4	Intro to Analysis I OR	MATH 121	Cell/Mol Bio/Genetics/Biochemistry Elective (1 course)
MATH 102 4	Intro to Analysis II OR		
MATH 239 4	Math for the Life Sci O		Organismal/Physiology Elective (1 course)
MATH 410 3	Scientific Data Analysis		, ,
MATH411 3	Scientific Data Analysis	s II	
Physical Sciences (42 credits)			Ecology /Evol Bio/ Paleo Elective (2 courses)
CHEM 101 3.5	General Chemistry I		
CHEM 102 4.5			
CHEM 103 5	General Chemistry III		
CHEM 241 4	Organic Chemistry I		C. Laboratory courses (minimum of 2 courses, 4 credits)
CHEM 242 4	Organic Chemistry II		
CHEM 243 3	Organic Chemistry III		
CHEM 244 3	Organic Chemistry I La		Euro Election (24 and the minimum of many)
CHEM 245 3	Organic Chemistry II La	ab	Free Electives (24 credits – minimum 8 courses)
PHYS 152 4	Introductory Physics I		
PHYS 153 4	Introductory Physics II		
PHYS 154 4	Introductory Physics III		_
Co-op Placements			
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Eco/Evo/Paleo CONCENTRATION ELE	ECTIVES			
Cell/Mol Bio/Genetics/Biochem Electives		ENVS 375 Invertebrate Paleontology	3 credits	
Pick one of the following		ENVS 382 Field Botany: NJ Pine Barrens		
BIO 214 Principles of Cell Biology	3 credits	ENVS 383 Ecology of NJ Pine Barrens*	5 credits	
BIO 244 Genetics	3 credits	ENVS 390 Marine Ecology	3 credits	
BIO 311 Metabolism BIO 331 Bioinfomatics I	4 credits 3 credits	ENVS 410 Physiological Ecology	3 credits	
BIO 346 Stem Cell Research	3 credits	ENVS 412 Biophysical Ecology	3 credits	
BIO 404 Struct & Func of Biomolecules	4 credits	ENVS 413 Adv Population Ecology	3 credits	
BIO 413 Genomics	3 credits	ENVS 414 AdvCommunity Ecology	3 credits	
BIO 444 Human Genetics	3 credits	ENVS 476 Paleobotany	3 credits	
BIO 449 Recombinant DNA Laboratory*	5 credits	ENVS 477 Vertebrate Paleontology	3 credits	
ENVS 326 Molecular Ecology	3 credits	ENVS 520 Fld Mthds Paleoecology	3 credits	
BIO 498 Independent Study (by permission	n of department)	BIO XXXX Advanced Evolution	3 credits	
Organismal/Physiology Electives		Laboratory Electives		
Pick one of the following		Pick two of the following		
BIO 201 Human Physiology I	4 credits	BIO 202 Human Physiology Laboratory	2 credits	
BIO 221 Microbiology+	3 credits	BIO 215 Tech Cell Biology	2 credits	
BIO 223 Parasitology	3 credits	BIO 222 Microbiology Lab+	2 credits	
BIO 254 Invertebrate Morph & Phys+	3 credits	BIO 255 Invert Morph & Phys Lab+	2 credits	
BIO 256 Vertebrate Morph & Phys*	5 credits	BIO 256 Vertebrate Morph & Phys*	5 credits	
BIO 260 Plant Biology I	4 credits	BIO 306 Biochemistry Laboratory	2 credits	
BIO 284 Biology of Stress	3 credits	BIO 313 Comp Physiology Lab	2 credits	
BIO 310 Comparative Physiology	3 credits	BIO 333 Bioinformatics Lab	2 credits	
BIO 322 Mycology	4.5 credits	BIO 387 Gross Anatomy Lab+	2 credits	
BIO 368 Embryology	4 credits	BIO 406 Comp Biochemistry Laboratory	2 credits	
BIO 386 Gross Anatomy+	3 credits	BIO 440 Property DNA Lab	2 credits	
BIO 412 Biology of Aging	3 credits	BIO 449 Recombinant DNA Lab*	5 credits	
BIO 420 Virology	3 credits	BIO 497 Research (by permission of dept)	0.5 – 12 credits	
BIO 426 Immunology	3 credits	ENVS 285 Population Ecology Lab ENVS 287 Community Ecology Lab	2 credits	
ENVS 392 Ichthyology & Herpetology	3 credits		2 credits	
		ENVS 327 Molecular Ecology Lab	2 credits 5 credits	
Evolutionary Bio/Ecology Electives		ENVS 336 Terrestrial Ecology * ENVS 365 Animal Behavior Lab	2 credits	
Pick two of the following	0 11	ENVS 503 Allilliai Beliavioi Lau	2 credits	
ENVS 230 General Ecology	3 credits	* Have both a lecture and laboratory component- 3 cre	dits apply to lecture;	
ENVS 271 Dinosaurs and Their World	3 credits	2 credits apply to lab		
ENVS 272 Physical Geology	4 credits	** Have both a lecture and laboratory component- 2 cr	edits apply to lecture; 2	
ENVS 284 Phys & Population Ecology	3 credits	credits apply to lab + Lecture and lab must be taken together		
ENVS 286 Comm & Ecosystem Ecology	3 credits	Pre-requisites must be met before taking a	course	
ENVS 322 Tropical Ecology	3 credits			
ENVS 330 Aquatic Ecology	3 credits			
ENVS 336 Terrestrial Ecology*	3 credits			
ENVS 338 Biodiversity & Conservation	3 credits			
ENVS 360 Evo-Devo	3 credits			
ENVS 364 Animal Behavior	3 credits			
ENVS 374 Sedimentary Environments	3 credits			