ECOLOGY, EVOLUTION, & NATURAL RESOURCES (216): (120 CREDITS-includes Core)

NEW 2023 VERSION

CHECK LIST

Please use the following checklist to review your courses but also check on Degree Navigator to ensure all categories are "checked" off. Courses are not offered every semester and course availability might change (this does not replace DN, but is for planning purposes only). Please contact Dr. Russell (kimberly.russell@rutgers.edu) if you have any questions.

GENERAL CORE REQUIREMENTS

GENERAL BIOLOGY (8-10 credits)		Completed	CHEMISTRY OR PHYSICS**		Completed	
01:119:115	General Biology I		01:160:161	General Chemistry		
01:119:116	General Biology II		01:160:171	Introduction to Experimentation		
01:119:117	Biological Research Lab		01:750	Physics 193 OR 201 OR 203 AND 205		
		<u> </u>		OR		
			01:160:161	General Chemistry		
			01:160:162	General Chemistry		
			01:160:171	Introduction to Experimentation		
				OR		
QUANTITA	TIVE METHODS (1 course)	Completed	01:750:203	General Physics (3 cr)		
01:640:135	Calculus I		01:750:205	General Physics Lab (1 cr)		
			01:750:204	General Physics (3 cr)		
			01:750:206	General Physics Lab (1 cr)		
				OR		
			01:750:193	Physics for the Sciences (4 cr)		
Experience	-Based Education (3 credits)*	Completed	01:750:194	Physics for the Sciences (4 cr)		
*These are a	all by permission					
11:216:440	Practical Experience in EENR		OR			
11:216:484	Research Experience in EENR		01:750:201	Extended Physics (5 cr)		
01:090:322	Peer Instructor Education		01:750:202	Extended Physics (5 cr)		
01:556:221	Aresty Research Assistant Program		**If you intend to go to graduate school, we cannot		nnot	
01:556:222	Aresty Research Assistant Program		guarantee that the potential grad program you apply to		apply to	
11:015:301	Aresty Research Assistant Program		will require 2 semesters of BOTH chemistry and physics			
11:554:301	Aresty Research Assistantship					
11:554:302	Aresty Research Assistantship					
11:015:497	George H. Cook Scholars Program					
11:015:498	George H. Cook Scholars Program					
11:216:376	Practicum in Fisheries Management					
11:216:377	Practicum in Forest Management					
11:902:300	SEBS Internship I					
11:902:301	SEBS Internship II					
11:902:400	SEBS Co-op					
15:255:535	Teaching Internship					
05:300:200	Introduction to Education					

ECOLOGY, EVOLUTION & NATURAL RESOURCES REQUIREMENTS

Major Requ	Completed		
11:216:104	1:216:104 Topics in Ecology, Evolution, and Natural Resources		
11:216:217	Principles of Natural Resource Management		
11:216:351	Principles of Ecology		
11:216:352	Principles of Ecology Lab		
11:216:369	Analytical Methods		
11:216:431	Fundamentals of Ecological & Environmental Modeling		
11:216:499	99 Senior Capstone		
AND			
11:216:251	Fundamentals of Evolution		
11:216:252 Fundamentals of Evolution Lab (taken with or after 251)			
OR			
11:216:486	Principles of Evolution (taken with 252)		
Fundamentals of Evolution Lab (taken with 486)			

Ecology (2	Completed	
11:216:272	Dendrology	
11:216:302	Parasite Ecology	
11:216:317	1:216:317 Conservation Ecology	
11:216:332	11:216:332 Plant Ecology	
11:216:360	Animal Physiological Ecology	ΙΠ
11:216:422	Soil Organismal Diversity	
11:216:450	11:216:450 Landscape Ecology	
11:216:451 Global Change Ecology		
11:216:435	Freshwater and Wetland Ecosystems*	
11:216:487	Urban Ecology	

Evolution (2	Completed		
11:216:240	Behavioral Biology		
11:216:269	Evolution of Animal Behavior		
11:216:323	Ornithology		
11:216:324	Invertebrate Zoology		
11:216:325	Vertebrate Zoology		
11:216:353	1:216:353 Experimental Evolution		
11:216:405	Evolution of Infectious Diseases		
11:216:411	Plant Diversity & Evolution (*must be taken with 412)		
11:216:412	Plant Diversity & Evolution Lab (*411 counted together as 1 course)		
11:216:441	Animal Behavior	7 0	
11:216:454	Molecular Ecology		
11:216:486	Principle of Evolution		

Natural Res	Completed	
11:216:210	11:216:210 Nature Journaling	
11:216:274	Field Techniques	
11:216:315	Conservation Techniques	
11:216:320	Controversies in Sustainability	
11:216:365	Arboriculture (even years)	
11:216:371	11:216:371 Intro Remote Sensing	
11:216:403	1:216:403 Urban Forestry	
11:216:435	Freshwater and Wetland Ecosystems*	
11:216:464	Wildlife Ecology & Conservation	
11:216:471	Silviculture	
11:216:474	Advanced Remote Sensing	
11:216:475	Winter Field Ecology	
11:573:232	Fundamentals of Environmental Geomatics (*taken with 233)	
11:573:233	3:233 Fundamentals of Environmental Geomatics Lab (*taken with 232)	
11:573:362	:573:362 Intermediate Env. Geomatics	
11:573:462	11:573:462 Advanced Geomatics	

Additional Courses: 216 Electives (4 courses)**		Completed	ompleted Additional Courses: Approved non-216 Electives**		Completed
11:216:101	Introduction to Ecology & Evolution		01:160:209	Elementary Organic Chemistry	
11:216:110	Evolution, Disease & Medicine		01:160:307	Organic Chemistry	
11:216:115	Evolution Sex & Gender		01:160:308	Organic Chemistry	
11:216:199	Trees and the Environment		01:447:380	Genetics	
11:216:210	Nature Journaling		01:460:101	Introductory Geology	
11:216:240	Behavioral Biology		01:640:136	Calculus II	
11:216:269	Evolution of Animal Behavior		01:640:138	Calculus II for the Biological Sciences	
	1		11:067:300	Integrative Physiology	
			11:067:328	Animal Genetics	
11:216:272	Dendrology		11:115:301	Introductory Biochemistry	
11:216:274	Field Techniques		11:115:423	Fundamentals of Genomics	
11:216:315	Conservation Techniques				- I
11:216:317	Conservation Ecology		11:370:308	Apiculture	
11:216:320	Controversies in Sustainability		11:370:381	Insect Biology	
11:216:323	Ornithology		11:370:402	Aquatic Entomology	
11:216:324	Invertebrate Zoology		11:370:404	Insect Structure and Function II	
11:216:325	Vertebrate Zoology		11:370:409	Insect Classification	
11:216:332	Plant Ecology		11:370:430	Urban Entomology	
			11:573:231	Fundamentals of Envir. Planning	
			11:573:232	Fundamentals of Env. Geo. (*taken with 233)	
11:216:353	Experimental Evolution		11:372:322	Land Measurement & Mapping	
11:216:360	Animal Physiological Ecology		11:573:362	Intermediate Env. Geomatics	
11:216:365	Arboriculture (even years)		11:573:462	Advanced Geomatics	
11:216:371	Intro Remote Sensing		11:573:362	Intermediate Env. Geomatics	
	5		11:573:462	Advanced Geomatics	
11:216:403	Urban Forestry		11:375:360	Soils and Water	
11:216:405	Evolution of Infectious Diseases		11:375:407	Environmental Toxicology	
11:216:411	Plant Diversity & Evolution (*must be taken with 412)		11:375:411	Environmental Microbiology	
11:216:435	Freshwater and Wetland Ecosystems		11:375:421	Principle of Air Pollution	
11:216:422	Soil Organismal Diversity		11:375:444	Water Chemistry	
11:216:441	Animal Behavior		11:375: 453	Soil Ecology	
11:216:450	Landscape Ecology		11:628:321	Ichthyology	
11:216:451	Global Change Ecology		11:628:342	Marine Conservation	
11:216:454	Molecular Ecology		11:670:201	Elements of Meteorology	
			11:670:202	Elements of Climate	
11:216:464	Wildlife Ecology & Conservation		11:670:491	Microbial Ecology & Diversity	
			11:776:210	Principles of Botany	
11:216:469	Wildlife Diseases		11:776:305	Plant Genetics	
11:216:471	Silviculture		11:776:382	Plant Physiology	
11:216:474	Advanced Remote Sensing		11:776:400	Fungi in the Environment	
11:216:475	Winter Field Ecology			5	
11:216:486	Principles of Evolution				+
11:216:487	Urban Ecology				
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^{**} Courses are subject to change - THIS IS NOT A COMPLETE LIST! If a non-216 course is not on the list, but you would like to take it, contact Dr. Russell for approval.