



Richard Gilder Graduate School Course Catalog Fall 2017 - Summer 2018

Comparative Biology PhD Program

CORE COURSES

RGGS501 Systematics and Biogeography

Credits: 3

RGGS501L Systematics and Biogeography Lab

Credits: 1

RGGS502 Grantsmanship, Ethics, and Communication

Credits: 3

RGGS503 Evolution

Credits: 3

RGGS503L Evolution Lab

Credits: 1

ELECTIVE COURSES

RGGS601 Phylogenetics Applications

Credits: 3

RGGS602 GIS Methods and Applications

Credits: 2

RGGS603 Marine Zoological Biodiversity Surveys & Inventory

Credits: 3

RGGS604 Understanding Biological Disparity

Credits: 3



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RGGS609	Molecular and Genome Evolution
<i>Credits:</i>	3
RGGS611	Parasitism
<i>Credits:</i>	3
RGGS612	Biogeographic Analysis
<i>Credits:</i>	3
RGGS628	Systematic Ichthyology
<i>Credits:</i>	3
RGGS630	Mammalogy
<i>Credits:</i>	3
RGGS637	How the Cosmos & Earth's History Affect Life
<i>Credits:</i>	1
RGGS652	<i>Anolis</i> Lizards: Model System in Ecology and Evolution
<i>Credits:</i>	3
RGGS655	Advanced Invertebrate Zoology
<i>Credits:</i>	3
RGGS655L	Advanced Invertebrate Zoology Lab
<i>Credits:</i>	1
RGGS656	Major Events in Evolution: Paleozoic-Mesozoic Transition
<i>Credits:</i>	2
RGGS656L	Major Events in Evolution: Paleozoic-Mesozoic Transition Lab
<i>Credits:</i>	0-3
RGGS658	Vertebrate Paleobiology
<i>Credits:</i>	3
RGGS658L	Vertebrate Paleobiology Lab
<i>Credits:</i>	1



RGGS659	Insect Taxonomy
<i>Credits:</i> 3	
RGGS659L	Insect Taxonomy Lab
<i>Credits:</i> 0	
RGGS660	Extinction Science
<i>Credits:</i> 2	
RGGS661	Reptile Biology and Diversity
<i>Credits:</i> 3	
RGGS662	Next Generation Sequencing
<i>Credits:</i> 3	
RGGS663	Biological Specimen Informatics
<i>Credits:</i> 3	
RGGS664	Next Generation Sequencing Informatics
<i>Credits:</i> 2	
RGGS666	The Tree of Life and Invertebrate Zoology
<i>Credits:</i> 2	
RGGS668	Microscopy and Imaging Methods for Biology
<i>Credits:</i> 2	
RGGS669	Geometric Morphometrics
<i>Credits:</i> 1	
RGGS670	Algorithmic Approaches to Biological Data
<i>Credits:</i> 4	
RGGS671	Next Generation Sequencing 3: Advanced Informatics
<i>Credits:</i> 1	
RGGS672	Foundations of Biological Classification
<i>Credits:</i> 2	
RGGS672L	Foundations of Biological Classification Lab
<i>Credits:</i> 1	



RGGS673 **Speciation**
Credits: 3

RGGS674 **Modern Techniques and Evo-Devo**
Credits: 1

RGGS674L **Modern Techniques and Evo-Devo Lab**
Credits: 1

INDEPENDENT STUDY ELECTIVE COURSES

RGGS890-899 **Independent Study**
Credits: 1-3

TEACHING ASSISTANTSHIPS

RGGS701 **Teaching Assistantship I**
Credits: 3

RGGS702 **Teaching Assistantship II**
Credits: 3

MUSEUM SEMINAR SERIES

RGGS703-101 **Museum Seminar Series I**
Credits: 1

RGGS704-301 **Museum Seminar Series II**
Credits: 1

STUDENT SYMPOSIUM

RGGS705-101 **Student Symposium**
Credits: 1

DIRECTED RESEARCH

RGGS801 **Directed Research**
Credits: 1



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RGGS802	Directed Research
<i>Credits:</i> 2	
RGGS803	Directed Research
<i>Credits:</i> 3	
RGGS804	Directed Research
<i>Credits:</i> 2	
RGGS805	Directed Research
<i>Credits:</i> 1	
RGGS806	Directed Research
<i>Credits:</i> 2	
RGGS807	Directed Research
<i>Credits:</i> 3	
RGGS808	Directed Research
<i>Credits:</i> 2	
RGGS809	Directed Research
<i>Credits:</i> 1	
RGGS810	Directed Research
<i>Credits:</i> 2	
RGGS811	Directed Research
<i>Credits:</i> 3	
RGGS812	Directed Research
<i>Credits:</i> 2	
RGGS813	Directed Research
<i>Credits:</i> 1	
RGGS814	Directed Research
<i>Credits:</i> 2	