

Fall 2017 Evolutionary Biology Option Courses			
<b>1. Mathematics</b>			
			<b>Credits</b>
Math	171	Calc with Algebra & Trig I	5
Math	221	Calculus&Analytic Geometry 1	5
Statistics	301	Intro-Statistical Methods	3
Statistics	371	Intro Applied Stats-Life Sci	3
<b>2. Chemistry</b>			
Chemistry	103	General Chemistry I	4
Chemistry	104	General Chemistry II	5
Chemistry	109	Advanced General Chemistry	5
Chemistry	343	Intro Organic Chemistry	3
Chemistry	344	Intro Organic Chemistry Lab	2
Chemistry	345	Intmed Organic Chemistry	3
<b>3. Physics</b>			
Physics	103	General Physics	4
Physics	104	General Physics	4
Physics	201	General Physics	5
Physics	202	General Physics	5
Physics	207	General Physics	5
Physics	208	General Physics	5
<b>4. Introductory Biology</b>			
Biology/Zoology	101	Animal Biology	3
Biology/Zoology	102	Animal Biology Laboratory	2
Biology/Botany	130	General Botany	5
Biology/Botany/Zoology	151	Introductory Biology	5
Biology/Botany/Zoology	152	Introductory Biology	5
Biocore	381	Evolution, Ecology, & Genetics	3
Biocore	382	Evolution, Ecology, & Genetics Lab	2
Biocore	485	Organismal Biology	2
Biocore	486*	Organismal Biology Lab	2
*Biocore policy amended, see advisor for details.			
<b>Foundational Courses (not required if completing Biocore)</b>			
Genetics	466	Principles of Genetics	3
<b>5. Intermediate/Advanced</b>			
Anthro/Botany/Zoology	410	<a href="#">Evolutionary Biology</a>	3
<b>5A. Cellular and Subcellular Biology</b>			<b>Credits</b>
Agronomy/Botany/Hort	339	<a href="#">Plant Biotechnology: Principles &amp; Techniques I</a>	4
Biochem	501	<a href="#">Introduction to Biochemistry</a>	3
Biochem	507	<a href="#">General Biochemistry I</a>	3
Biochem/Nutri Sci	510	<a href="#">Biochemical Principles of Human &amp; Animal Nutrition</a>	3
Biochem	551	<a href="#">Biochemical Methods</a>	4
Biochem	601	<a href="#">Protein &amp; Enzyme Structure &amp; Function</a>	2
Biochem/Genetics/ Microbio	612	<a href="#">Prokaryotic Molecular Biology</a>	3
			<b>Approved Lab</b>
			Y
			Y

Biochem/Phmcol-M/ Zoology	630	<a href="#">Cellular Signal Transduction Mechanisms</a>	3	
Genetics	466	<a href="#">Principles of Genetics</a>	3	
Genetics	467	<a href="#">General Genetics I</a>	3	
Genetics/Md Genetics	677	<a href="#">Developmental Genetics for Conservation</a>	3	
Microbio	470	<a href="#">Microbial Genetics &amp; Molecular Machines</a>	3	
Microbio/MM&I	528	<a href="#">Immunology</a>	3	
Microbio/Oncology/PL Path	640	General Virology- Multiplication of Viruses	3	
MM&I	341	<a href="#">Immunology</a>	3	
NTP/Physiol/Phmcol-M	610	<a href="#">Cellular &amp; Molecular Neuroscience</a>	4	
Phm Sci	558	<a href="#">Laboratory Techniques in Pharmacology &amp; Toxicology</a>	2	Y
Psych/Zoology	523	<a href="#">Neurobiology</a>	3	
Psych	601	<a href="#">Epigenetics &amp; the Brain</a>	3	
Zoology	555	<a href="#">Laboratory in Developmental Biology</a>	3	Y
Zoology	570	<a href="#">Cell Biology</a>	3	
<b>5B. Organismal Biology</b>			Credits	Approved Lab
An Sci/Dy Sci	434	<a href="#">Reproductive Physiology</a>	3	Y
Biocore	486*	<a href="#">Organismal Biology Laboratory</a>	2	Y
Botany	300	<a href="#">Plant Anatomy</a>	4	Y
Botany	330	<a href="#">Algae</a>	3	Y
Botany/F&W Ecol	402	<a href="#">Dendrology</a>	2	Y
CS&D	503	<a href="#">Neural Mechanisms of Speech, Hearing &amp; Language</a>	3	
Dy Sci	305	<a href="#">Lactation Physiology</a>	2	Y
Entom/Zoology	302	<a href="#">Introduction to Entomology</a>	4	Y
Entom	331	<a href="#">Taxonomy of Mature Insects</a>	4	Y
F&W Ecol	401	<a href="#">Physiological Animal Ecology</a>	3	
Genetics	545	<a href="#">Genetics Laboratory</a>	2	Y
Genetics/Md Genet	565	Human Genetics	3	
Kines	314	<a href="#">Physiology of Exercise</a>	4	Y
Kines	338	<a href="#">Human Anatomy</a>	3	
Kines	339	<a href="#">Human Anatomy Lab</a>	2	Y
Kines	721	Neural Basis for Movement	3	
Microbio	303	<a href="#">Biology of Microorganisms</a>	3	
Microbio	304	<a href="#">Biology of Microorganisms Laboratory</a>	2	Y
Microbio	526	<a href="#">Physiology of Microorganisms</a>	3	
MM&I	301	<a href="#">Pathogenic Bacteriology</a>	2	
NTP	675	<a href="#">Basic Sleep Mechanisms &amp; Sleep Disorders</a>	3	
Nutr Sci	631	Clinical Nutrition	4	
Oncology	401	<a href="#">Introduction to Experimental Oncology</a>	2	
Physiol	335	<a href="#">Physiology</a>	5	Y
Psych	414	Cognitive Psychology	3	
Zoology	430	<a href="#">Comparative Anatomy of Vertebrates</a>	5	Y
* Students must complete Biocore 382 and 384 to count 486 towards fulfilling Requirement 5 or 6.				

<b>5C. Ecology</b>			Credits	Approved Lab
Agron/Botany/Soil Sci	370	<a href="#">Grassland Ecology</a>	3	
Agron/Entom/Env Tox/F&W Ecol	632	<a href="#">Ecotoxicology: The Chemical Players</a>	1	
Agron/Entom/Env Tox/F&W Ecol	633	<a href="#">Ecotoxicology: Impacts on Individuals</a>	1	
Agron/Entom/Env Tox/F&W Ecol	634	<a href="#">Ecotoxicology: Impacts on Populations, Communities &amp; Ecosystems</a>	1	
Botany/F&W Ecol	455	<a href="#">Vegetation of Wisconsin</a>	4	Y
Botany/F&W Ecol/Zoology	460	<a href="#">General Ecology</a>	4	Y
Botany/Envir St/F&W Ecol/Zoology	651	<a href="#">Conservation Biology</a>	3	
Entom	450	<a href="#">Basic &amp; Applied Insect Ecology</a>	3	
Entom	451	<a href="#">Basic &amp; Applied Insect Ecology Lab</a>	1	N
Envir St/Zoology	315	<a href="#">Limnology-Conservation of Aquatic Resources</a>	2	
F&W Ecol	550	<a href="#">Forest Ecology</a>	3	
PI Path	300	<a href="#">Introduction to Plant Pathology</a>	4	Y
Zoology	316	<a href="#">Laboratory for Limnology-Conservation of Aquatic Resources</a>	3	Y
<b>5D. Evolution and Systematic Biology</b>			Credits	Approved Lab
Anthro	411	<a href="#">The Evolution of the Genus, Homo</a>	3	
Anthro	603	Seminar in Evolutionary Theory	3	
Botany	400	<a href="#">Plant Systematics</a>	4	Y
Envir St/F&W Ecol/ Zoology	360	<a href="#">Extinction of Species</a>	3	
Microbio	450	<a href="#">Diversity, Ecology &amp; Evolution of Microorganisms</a>	2	
Psych	449	<a href="#">Animal Behavior</a>	3	
<b>5E. Applied Biology, Agricultural and Natural Resources</b>			Credits	Approved Lab
Agronomy	302	<a href="#">Forage Management &amp; Utilization</a>	3	
Amer Ind/Anthro/Botany	474	<a href="#">Ethnobotany</a>	3	
Botany	403	Field Collections & Identification	1 to 4	N
Entom	351	<a href="#">Principles of Economic Entomology</a>	3	
Envir St/Pop Hlth	471	Introduction to Environmental Health	3	
Envir St/Pop Hlth	502	<a href="#">Air Pollution &amp; Human Health</a>	3	
Food Sci/Microbio	324	<a href="#">Food Microbiology Laboratory</a>	2	Y
Food Sci/Microbio	325	Food Microbiology	3	
Food Sci	532	<a href="#">Integrated Food Manufacturing</a>	4	Y
F&W Ecol/Hort/Land Arc/PI Path	309	<a href="#">Diseases of Trees &amp; Shrubs</a>	3	N
F&W Ecol	318	Principles of Wildlife Ecology	3	
F&W Ecol	415	<a href="#">Tree Physiology</a>	3	
F&W Ecol/Surg Sci	548	<a href="#">Diseases of Wildlife</a>	3	

F&W Ecol	561	<a href="#">Wildlife Management Techniques</a>	3	Y
Genetics/Md Genetics	677	<a href="#">Evolutionary Systems Biology</a>	3	Y
Hort/Land Arc	263	<a href="#">Landscape Plants I</a>	3	Y
Hort	370	<a href="#">World Vegetable Crops</a>	3	N
Med Phys/NTP	671/675	<a href="#">Methods for Neuroimaging Research – Fall '16 only</a>	3	Y
Medicine/M&Envtox/Oncology/Path Phm Sci/Phmcol-M/Pop Hlth	625	<a href="#">Toxicology I</a>	3	
MM&I	554	<a href="#">Emerging Infectious Diseases &amp; Bioterrorism</a>	2	
Nutr Sci	332	Human Nutritional Needs	3	
PI Path/Soil Sci	323	<a href="#">Soil Biology</a>	2	
Soil Sci	321	<a href="#">Soils &amp; Environmental Chemistry</a>	3	
Zoology	500	<a href="#">Undergrad Neurobiology Seminar</a>	1	
<b>Seminar</b>				
Biology/Genetics	522	Evolution Seminar Series UG	1	
<b>CALS Capstone Courses</b>			<b>Credits</b>	
Biocore	486**	<a href="#">Organismal Biology Laboratory</a>	2	
Botany/F&W Ecol	455	<a href="#">Vegetation of Wisconsin</a>	4	
Botany/F&W Ecol/Zoology	460	<a href="#">General Ecology</a>	4	
		<a href="#">Laboratory for Limnology- Conservation of Aquatic Resources</a>		
Zoology	316		3	
		<a href="#">Laboratory in Developmental Biology</a>		
Zoology	555		3	
**Students must complete Biocore 382 & 384 to count 486 towards fulfilling requirement 5 OR 6.				
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