

Start/End Dates

Meeting Days

Meeting Times

Location

Instructor

Course Topic (if applicable)

**BIOLOGICAL SCIENCES****Biological Sciences**

**BIOLOGY 110 BOB: BIOLOGY OF THE BRAIN ... BOB: Biology of the Brain, is a freshman-level introductory course that will cover broad topics of Scientific Method, Scientific Thinking, and initiate critical thinking skills using the field of neuroscience as the backdrop for investigation. Basic understanding of nerve biology, nerve cell function, communication between nerve cells will follow. The course will climax with a survey of the final product of nerve activity: behavior. Not applicable to Biology Emphases or Biology Minors. Three hours of lecture per week. Offered every semester.**

**COREQ: MATH 141 OR 140 OR WAIVER**

#4839 Section 01 [units: 3] Gen Ed Math/Natural Sciences (GM)  
09/02-12/22 TR 02:15 PM - 03:30 PM UH0140 Michael J Waller

**BIOLOGY 120 BIOLOGICAL FOUNDATIONS ... A terminal course designed to introduce basic principles of life, such as structure and function, reproduction, evolution, diversity, and adaptation, leading to a broader understanding of man and his biological environment. Not applicable to biology emphases or minors. Three lectures and two hours of laboratory per week.**

**COREQ: MATH 141 OR 140 OR WAIVER**

#3313 Section 01 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 M 01:10 PM - 03:10 PM UH0364 Brett C Woods  
09/02-12/22 MWF 09:55 AM - 10:45 AM UH0145 Kris Curran

#3315 Section 02 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 M 03:20 PM - 05:20 PM UH0364 Brett C Woods  
09/02-12/22 MWF 09:55 AM - 10:45 AM UH0145 Kris Curran

#3317 Section 03 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 W 01:10 PM - 03:10 PM UH0364 Elisabeth A Harrahy  
09/02-12/22 MWF 09:55 AM - 10:45 AM UH0145 Kris Curran

#3383 Section 04 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 W 03:20 PM - 05:20 PM UH0364 Elisabeth A Harrahy  
09/02-12/22 MWF 11:00 AM - 11:50 AM UH0145 Kris Curran

#3385 Section 05 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 R 01:10 PM - 03:10 PM UH0364 Elisabeth A Harrahy  
09/02-12/22 MWF 11:00 AM - 11:50 AM UH0145 Kris Curran

#3387 Section 06 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 R 03:20 PM - 05:20 PM UH0364 Elisabeth A Harrahy  
09/02-12/22 MWF 11:00 AM - 11:50 AM UH0145 Kris Curran

#3389 Section 07 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 T 09:30 AM - 11:30 AM UH0364 Michael J Waller  
09/02-12/22 MWF 09:55 AM - 10:45 AM UH0142 Eric M Brown

#3393 Section 08 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 R 09:30 AM - 11:30 AM UH0364 Peter W Mesner Jr  
09/02-12/22 MWF 09:55 AM - 10:45 AM UH0142 Eric M Brown

#3395 Section 09 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 T 08:50 AM - 10:50 AM UH0356 Stephen L Solheim  
09/02-12/22 MW 02:15 PM - 03:30 PM UH0145 Michael J Waller

#3397 Section 10 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 T 11:00 AM - 01:00 PM UH0356 Brett C Woods  
09/02-12/22 MW 02:15 PM - 03:30 PM UH0145 Michael J Waller

#3445 Section 11 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 W 08:50 AM - 10:50 AM UH0356 Michael J Waller  
09/02-12/22 MW 02:15 PM - 03:30 PM UH0145 Michael J Waller

#3399 Section 12 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 T 01:10 PM - 03:10 PM UH0356 Eric M Brown  
09/02-12/22 MW 03:45 PM - 05:00 PM UH0145 Michael J Waller

#3401 Section 13 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 W 11:00 AM - 01:00 PM UH0356 Stephen L Solheim  
09/02-12/22 MW 03:45 PM - 05:00 PM UH0145 Michael J Waller

#3403 Section 14 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 R 11:00 AM - 01:00 PM UH0356 Anneke Els Lisberg  
09/02-12/22 MW 03:45 PM - 05:00 PM UH0145 Michael J Waller

#3407 Section 15 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 M 01:10 PM - 03:10 PM UH0356 Stephen L Solheim  
09/02-12/22 TR 03:45 PM - 05:00 PM UH0140 Nadine L Kriska

#3409 Section 16 [units: 4] Gen Ed Laboratory (GL)  
09/02-12/22 M 03:20 PM - 05:20 PM UH0356 Bruce David Eshelman  
09/02-12/22 TR 03:45 PM - 05:00 PM UH0140 Nadine L Kriska

Class#	Section	(Units)	General Education Designation (if any)	Start/End Dates	Meeting Days	Meeting Times	Location	Instructor	Course Topic (if applicable)
#3411	Section 17	[units: 4]	Gen Ed Laboratory (GL)	09/02-12/22	W	01:10 PM - 03:10 PM	UH0356	Bruce David Eshelman	
				09/02-12/22	TR	03:45 PM - 05:00 PM	UH0140	Nadine L Kriska	
#5898	Section 18	[units: 4]	Gen Ed Laboratory (GL)	09/02-12/22	W	11:00 AM - 01:00 PM	UH0364	Ellen S Davis	
				09/02-12/22	MWF	09:55 AM - 10:45 AM	UH0145	Kris Curran	
#5899	Section 19	[units: 4]	Gen Ed Laboratory (GL)	09/02-12/22	R	01:10 PM - 03:10 PM	UH0356	Stephen L Solheim	
				09/02-12/22	MW	02:15 PM - 03:30 PM	UH0145	Michael J Woller	
#6028	Section 20	[units: 4]	Gen Ed Laboratory (GL)	09/02-12/22	W	09:00 AM - 11:00 AM	UH0364	Nadine L Kriska	
				09/02-12/22	MWF	11:00 AM - 11:50 AM	UH0145	Kris Curran	

**BIOLOGY 141 INTRODUCTORY BIOLOGY I ...** An introduction to biology emphasizing the chemistry of life, the cell, metabolism, genetics, bacteria and protists. Three hours of lecture and one hour of discussion and two hours of laboratory per week. This course is prerequisite to all advanced courses in biology for majors and minors. Offered every term.

**COREQ: MATH 141 OR WAIVER**

#3321	Section 01	[units: 5]	Gen Ed Laboratory (GL)	09/02-12/22	R	08:00 AM - 11:00 AM	UH0312	Nadine L Kriska	
				09/02-12/22	MWF	01:10 PM - 02:00 PM	UH0140	George V Clokey	
#3319	Section 01C	[units: 5]	Gen Ed Laboratory (GL)	09/02-12/22	MWF	01:10 PM - 02:00 PM	UH0140	George V Clokey	
#3323	Section 02	[units: 5]	Gen Ed Laboratory (GL)	09/02-12/22	T	03:45 PM - 06:45 PM	UH0312	George V Clokey	
				09/02-12/22	MWF	01:10 PM - 02:00 PM	UH0140	George V Clokey	
#3327	Section 03	[units: 5]	Gen Ed Laboratory (GL)	09/02-12/22	W	02:15 PM - 05:15 PM	UH0312	Nadine L Kriska	
				09/02-12/22	MWF	01:10 PM - 02:00 PM	UH0140	George V Clokey	
#3329	Section 04	[units: 5]	Gen Ed Laboratory (GL)	09/02-12/22	T	08:00 AM - 11:00 AM	UH0312	Nadine L Kriska	
				09/02-12/22	MW	02:15 PM - 03:30 PM	UH0142	Robert K Kuzoff	
#3369	Section 05	[units: 5]	Gen Ed Laboratory (GL)	09/02-12/22	R	02:15 PM - 05:15 PM	UH0312	Anneke Els Lisberg	
				09/02-12/22	MW	02:15 PM - 03:30 PM	UH0142	Robert K Kuzoff	
#3423	Section 06X	[units: 5]	Gen Ed Laboratory (GL)	09/02-12/22	F	08:50 AM - 11:50 AM	UH0312	George V Clokey	Dept. Consent
				09/02-12/22	TR	09:30 AM - 10:45 AM	UH0140	George V Clokey	
#3479	Section 07	[units: 5]	Gen Ed Laboratory (GL)	09/02-12/22	T	12:00 PM - 03:00 PM	UH0312	Nadine L Kriska	
				09/02-12/22	TR	09:30 AM - 10:45 AM	UH0140	George V Clokey	

**BIOLOGY 142 INTRODUCTORY BIOLOGY II ...** An introduction to biology emphasizing evolution, animal physiology, ecology, fungal, plant and animal diversity. Dissections are required. Three hours of lecture, one hour of discussion and two hours of laboratory per week. This course is prerequisite to all advanced courses in biology for majors and minors. Offered every term.

**PREREQ: BIOLOGY 141 WITH A GRADE OF C OR BETTER**

#3333	Section 01	[units: 5]	Gen Ed Laboratory (GL)	09/02-12/22	T	08:50 AM - 11:50 AM	UH0306	Kerry R Katovich	
				09/02-12/22	MWF	11:00 AM - 11:50 AM	UH0140	Kerry R Katovich	
#3421	Section 03	[units: 5]	Gen Ed Laboratory (GL)	09/02-12/22	M	02:15 PM - 05:15 PM	UH0306	George V Clokey	
				09/02-12/22	TR	02:15 PM - 03:30 PM	UH0142	George V Clokey	
#3427	Section 04	[units: 5]	Gen Ed Laboratory (GL)	09/02-12/22	W	01:10 PM - 04:10 PM	UH0306	Anneke Els Lisberg	
				09/02-12/22	TR	02:15 PM - 03:30 PM	UH0142	George V Clokey	

**BIOLOGY 200 WRITING IN BIOLOGY ...** This course is designed to develop the written communication skills of Biology students. It satisfies the Writing Proficiency requirement for all Biology majors. The two units do not apply towards the 34 unit major or any 22 unit Biology minor. Offered every term.

**PREREQ: ENGLISH 102 WITH A GRADE OF C OR BETTER, BIOLOGY 142 WITH A GRADE OF C OR BETTER**

#3335	Section 01	[units: 2]		09/02-12/22	TR	12:05 PM - 12:55 PM	UH0302	Ellen S Davis	
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**BIOLOGY 214 ECOLOGY AND SOCIETY ...** A study of basic ecological concepts and their application to the identification, understanding, and abatement of contemporary environmental problems. Special emphasis is given to those problems resulting from man and his activities. This course is accepted as a course in conservation required for teacher licensure in the sciences. **PREREQ: Completion of General Studies science requirements.**

#3337	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)	09/02-12/22	MWF	08:50 AM - 09:40 AM	UH0142	Stephen L Solheim	
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<i>Start/End Dates</i>	<i>Meeting Days</i>	<i>Meeting Times</i>	<i>Location</i>	<i>Instructor</i>	<i>Course Topic (if applicable)</i>
#3449	Section 02	[units: 3]	Gen Ed Math/Natural Sciences (GM)		
PREREQ: RESTRICTED TO BSE STUDENTS					
09/02-12/22	MWF	11:00 AM - 11:50 AM	UH0238	Brett C Woods	

**BIOLOGY 251 INTRODUCTION TO GENETICS ...** An introduction to the general principles of inheritance; subjects included are basic transmission genetics, molecular genetics, genetic engineering, mutations, and population genetics. Three hours of lecture and three hours of lab per week. Offered every semester.

PREREQ: BIOLOGY 142 WITH A GRADE OF C OR BETTER AND CHEM 102 WITH A GRADE OF C OR BETTER. UNREQ: BIOLOGY 413

#3341	Section 01	[units: 4]			
09/02-12/22	W	02:15 PM - 05:15 PM	UH0206	Kirsten Crossgrove	
09/02-12/22	MWF	09:55 AM - 10:45 AM	UH0140	Kirsten Crossgrove	
#3343	Section 02	[units: 4]			
09/02-12/22	R	09:30 AM - 12:30 PM	UH0206	Eric M Brown	
09/02-12/22	MWF	09:55 AM - 10:45 AM	UH0140	Kirsten Crossgrove	
#3451	Section 03	[units: 4]			
09/02-12/22	R	02:15 PM - 05:15 PM	UH0206	Eric M Brown	
09/02-12/22	MWF	09:55 AM - 10:45 AM	UH0140	Kirsten Crossgrove	

**BIOLOGY 253 INTRODUCTION TO CELL BIOLOGY ...** Introduction to the chemical and physical bases of life; bacterial and eukaryotic cell structure and function; cellular respiration; photosynthesis; and molecular biology. Three hours of lecture per week. Offered every semester.

PREREQ: BIOLOGY 142 WITH A GRADE OF C OR BETTER AND CHEM 102 WITH A GRADE OF C OR BETTER. COREQ: CHEM 104

#3345	Section 01	[units: 3]			
09/02-12/22	TR	08:00 AM - 09:15 AM	UH0142	Peter W Mesner Jr	
#3441	Section 02	[units: 3]			
09/02-12/22	TR	08:00 AM - 09:15 AM	UH0142	Peter W Mesner Jr	
#3453	Section 03	[units: 3]			
09/02-12/22	MWF	02:15 PM - 03:05 PM	UH0350	Kris Curran	

**BIOLOGY 254 BIOTECHNOLOGY LABORATORY METHODS I ...** Introduction to theory and practice in modern molecular biology labs, including principles of nucleic acid isolation/quantitation/manipulation, photometry, centrifugation, electrophoresis, and assay methods. Exercises include basic lab methods and techniques, DNA analysis including cloning, polymerase chain reaction (PCR) restriction digests and RNA analysis. Three hours laboratory per week.

PREREQ: BIOLOGY 251 WITH A GRADE OF C OR BETTER AND CHEM 104 WITH A GRADE OF C OR BETTER

#3347	Section 01	[units: 2]			
09/02-12/22	T	02:15 PM - 05:15 PM	UH0262	Catherine W Chan	
#4825	Section 03	[units: 2]			
09/02-12/22	R	02:15 PM - 05:15 PM	UH0262	Catherine W Chan	

**BIOLOGY 257 INTRODUCTION TO ECOLOGY ...** A survey of ecosystems and animal and plant populations and communities. Topics include review of the Earth's major biomes and the physical factors that influence them, the ecology and evolution of populations, the nature of biotic communities, the structure and function of ecosystems, and the status and protection of biodiversity. Three hours of lecture per week. Optional field trip. Offered every semester.

PREREQ: BIOLOGY 141 AND BIOLOGY 142 WITH A GRADE OF C OR BETTER UNREQ: BIOLOGY 214

#3349	Section 01	[units: 3]			
09/02-12/22	MWF	11:00 AM - 11:50 AM	UH0142	Bruce David Eshelman	
#3457	Section 02	[units: 3]			
09/02-12/22	MWF	11:00 AM - 11:50 AM	UH0142	Bruce David Eshelman	
#3459	Section 03	[units: 3]			
09/02-12/22	TR	11:00 AM - 12:15 PM	UH0142	Elisabeth A Harrahy	

**BIOLOGY 258 FIELD EXPERIENCE ...** Introduction to regional terrestrial and aquatic biological communities and field techniques for studying these communities. Field work and lectures will emphasize recognition of biotic community types, interpretation of their dynamics, and methods for identifying and surveying organisms. Weekend field trip required. Registration priority given to Ecology/Field majors.

PREREQ: BIOLOGY 141 AND BIOLOGY 142 WITH A GRADE OF "C" OR BETTER. COREQ: BIOLOGY 257

#3437	Section 01	[units: 2]	NOTE: Required additional course fee is \$15.		
09/02-12/22	T	01:10 PM - 05:10 PM	UH0360	Bruce David Eshelman	
09/02-12/22	Arranged	Arranged		Bruce David Eshelman	

**BIOLOGY 301 INTRODUCTION TO BEHAVIORAL NEUROSCIENCE ...** A survey of the biological and physiological bases of human and animal behavior, with particular attention to the following: Basic principles of the anatomy, physiology, and biochemistry of the nervous system; sensory and motor systems; sleep; circadian rhythms; sexual behavior; emotion and stress; motivation; learning, memory, and language; neurological disorders; psychopathology.

PREREQ: PSYCH 211 OR BIOL 110 OR 4 CREDITS IN BIOLOGY

#5038	Section 01	[units: 3]			
09/02-12/22	MW	02:15 PM - 03:30 PM	WH4007	Meg A Waraczynski	

*Start/End Dates Meeting Days Meeting Times Location Instructor Course Topic (if applicable)*

**BIOLOGY 303 PLANNING AND PRESENTING BIOLOGICAL RESEARCH ...** Students will learn fundamentals of hypothesis formation and testing, experimental design, and to evaluate research methodologies published in the biological literature. Students will write about their own research, and become familiar with the standards for publication of research results. Critical analysis of quantitative methods in biology. Recommended for the Ecology and Field Biology emphasis; strongly encouraged for Cell Biology and Physiology emphasis.

**PREREQ: BIOLOGY 141 AND BIOLOGY 142 WITH A GRADE OF C OR BETTER AND MATH 141 WITH A GRADE OF C OR BETTER**

#4842 Section 01D [units: 4]

09/02-12/22	R	02:15 PM - 05:15 PM	UH0250	Robert K Kuzoff
09/02-12/22	TR	12:30 PM - 01:45 PM	UH0142	Robert K Kuzoff

**BIOLOGY 311 MICROBIOLOGY ...** Examination of organisms too small to be seen by the unaided eye, ranging from their molecular organization to their role in global ecology. Primary emphasis will be the study of bacteria and viruses, their beneficial or detrimental impacts on humans, animals, and plants, and their current and potential exploitation. Two lectures and two labs per week. Offered every spring.

**PREREQ: BIOLOGY 141, BIOLOGY 142, BIOLOGY 251, BIOLOGY 253, CHEM 102, CHEM 104 WITH A GRADE OF C OR BETTER. RECOMMENDED COREQ: CHEM 251**

#3351 Section 01L [units: 4]

09/02-12/22	M	02:15 PM - 05:15 PM	UH0202	Daryle A Waechter-Brulla
09/02-12/22	MWF	08:50 AM - 09:40 AM	UH0350	Daryle A Waechter-Brulla

**BIOLOGY 340 COMPARATIVE VERTEBRATE ANATOMY ...** Dissection and study of vertebrate types emphasizing characteristic structures, general relationships, comparative anatomy, and the significance of adaptation and evolution. Laboratory work, lectures and quizzes. Offered every fall.

**PREREQ: BIOLOGY 141 AND BIOLOGY 142 WITH A GRADE OF C OR BETTER OR EQUIVALENTS**

#3373 Section 01 [units: 4]

09/02-12/22	MW	01:10 PM - 02:40 PM	UH0302	Ellen S Davis
09/02-12/22	TR	09:30 AM - 10:45 AM	UH0142	Ellen S Davis

#3461 Section 02 [units: 4]

09/02-12/22	MW	02:40 PM - 04:10 PM	UH0302	Ellen S Davis
09/02-12/22	TR	09:30 AM - 10:45 AM	UH0142	Ellen S Davis

**BIOLOGY 345 ANIMAL PHYSIOLOGY ...** A study of the functional mechanisms that underlie the life processes in animals. Six hours of laboratory and lecture per week. Offered every fall.

**PREREQ: BIOLOGY 253 WITH A GRADE OF C OR BETTER OR EQUIVALENTS**

#4844 Section 01L [units: 4]

09/02-12/22	W	01:10 PM - 04:10 PM	UH0266	Brett C Woods
09/02-12/22	MWF	09:55 AM - 10:45 AM	UH0238	Brett C Woods

**BIOLOGY 361 HUMAN ANATOMY AND PHYSIOLOGY I ...** A study of the structure and function of the human body at the level of organs and systems. This course covers the following topics: Anatomical Structure, Basic Histology, Bones, Muscles, and Nervous System. Three hours of lecture and three hours of laboratory per week. Offered every fall term.

**PREREQ: BIOLOGY 120 WITH A GRADE OF C OR BETTER OR BIOLOGY 141 AND BIOLOGY 142 WITH A GRADE OF C OR BETTER OR CONSENT OF INSTRUCTOR**

#3355 Section 01 [units: 4]

09/02-12/22	TR	12:15 PM - 01:30 PM	UH0266	Peter W Mesner Jr
09/02-12/22	T	02:00 PM - 05:00 PM	UH0266	Peter W Mesner Jr

**BIOLOGY 362 HUMAN ANATOMY AND PHYSIOLOGY II ...** A study of the structure and function of the human body at the level of organs and systems. This is the second term course of a two term sequence. This course represents coverage of the following topics: Endocrinology, Circulatory System, Cardiac System, Lymphatic System, Respiration, Digestion and Metabolism, Renal, and Reproduction and Development. Three hours of lecture and three hours of laboratory per week. Offered every spring term.

**PREREQ: BIOLOGY 361 WITH A GRADE OF C OR BETTER OR CONSENT OF INSTRUCTOR**

#3465 Section 01L [units: 4]

09/02-12/22	M	01:10 PM - 04:10 PM	UH0266	Anneke Els Lisberg
09/02-12/22	MWF	09:55 AM - 10:45 AM	UH0266	Anneke Els Lisberg

**BIOLOGY 363 MOLECULAR BIOLOGY ...** Discussion of modern molecular methods and approaches used in cellular and genomic analysis of prokaryotes and eukaryotes. Special emphasis will be given to high throughput genomic analysis tools and molecular approaches targeted towards understanding of basic cellular mechanisms, processes involved in the regulation of gene expression, gene evolution, and host pathogen interactions in plants, animals and humans. Three hours of lecture per week. 3 credits, lecture only course. Offered spring terms.

**PREREQ: BIOLOGY 251 AND 253 WITH A GRADE OF C OR BETTER. COREQ: CHEM 251**

#3377 Section 01 [units: 3]

09/02-12/22	MWF	01:10 PM - 02:00 PM	UH0238	Kirsten Crossgrove
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**BIOLOGY 370 AQUATIC BIOLOGY ...** The study of aquatic environment, its fauna, flora and general ecology. The laboratory will emphasize the taxonomic study of aquatic organisms. Offered during the fall of even years.

**PREREQ: BIOLOGY 257 WITH A GRADE OF C OR BETTER AND CHEM 102 WITH A GRADE OF C OR BETTER OR EQUIVALENTS**

#3381 Section 01 [units: 3] NOTE: Required Additional course fee is \$15.00

09/02-12/22	M	02:15 PM - 05:15 PM	UH0360	Elisabeth A Harrahy
09/02-12/22	MW	11:00 AM - 11:50 AM	UH0360	Elisabeth A Harrahy

*Start/End Dates Meeting Days Meeting Times Location Instructor Course Topic (if applicable)*

**BIOLOGY 390 BIOLOGY COLLOQUIUM ...** Lecturer on current research and career opportunities in biology through the colloquium format. Required of Biology majors offered on a satisfactory/no credit basis every semester. May not be taken concurrently with Senior Biology Colloquium.

**PREREQ: BIOLOGY 141, BIOLOGY 142 AND SOPHOMORE STATUS**

#3359 Section 01 [units: 0.5]

09/02-12/22 F 12:05 PM - 12:55 PM UH0145 Brett C Woods

S/NC Grading Basis Only

**BIOLOGY 400 SENIOR BIOLOGY COLLOQUIUM ...** Continuation of Biological Sciences 630-390. Lectures on current research and career opportunities in biology through the colloquium format. Required of Biology majors. Offered on a satisfactory/no credit basis only. Offered every semester. May not be taken concurrently with Biological Sciences 630-390.

**PREREQ: BIOLOGY 141, BIOLOGY 142, BIOLOGY 390 AND SENIOR STATUS**

#3361 Section 01 [units: 0.5]

09/02-12/22 F 12:05 PM - 12:55 PM UH0145 Brett C Woods

S/NC Grading Basis Only

**BIOLOGY 446 ORGANIC EVOLUTION ...** History of evolutionary thought, evidences of evolution and analysis of evolutionary mechanisms and processes. Offered every spring.

**PREREQ: BIOLOGY 251 WITH A GRADE OF C OR BETTER**

#5098 Section 01 [units: 3]

09/02-12/22 TR 09:30 AM - 10:45 AM UH0236 Robert K Kuzoff

**BIOLOGY 450 INTRODUCTORY ENTOMOLOGY ...** An introduction to the biology and classification of insects. The course surveys insect structure, function, development, and evolution. Relevant insect physiology, ecology, and behavior are introduced. The laboratory surveys insect orders and a select group of Wisconsin families. An insect collection is required. Offered in the fall semester.

**PREREQ: GRADE OF C OR BETTER IN BOTH BIOLOGY 141 & 142**

#5797 Section 01 [units: 4]

09/02-12/22 R 02:15 PM - 05:15 PM UH0306 Kerry R Katovich

09/02-12/22 TR 12:30 PM - 01:45 PM UH0238 Kerry R Katovich

**BIOLOGY 457 GENERAL ECOLOGY ...** A study of biotic populations and communities and natural ecosystems. Contemporary ecological theory and techniques will be emphasized, as well as their applications to the preservation of natural communities. Laboratory exercises will include field studies, laboratory experiments, and computer simulations and analysis. Six hours of lecture or laboratory per week.

**PREREQ: BIOLOGY 251; BIOLOGY 257; BIOLOGY 258; BIOLOGY 303 ALL WITH A GRADE OF C OR BETTER OR EQUIVALENT; MATH 231 OR MATH 342 OR PSYCH 215 ALL WITH A GRADE OF C OR BETTER OR EQUIVALENT**

#3433 Section 01 [units: 4] NOTE: Required Additional course fee is \$15.00

09/02-12/22 W 02:15 PM - 05:15 PM UH0360 Stephen L Solheim

09/02-12/22 MW 05:15 PM - 06:30 PM UH0360 Stephen L Solheim

**BIOLOGY 492 LABORATORY TEACHING EXPERIENCE ...** This course provides teaching experience at the college level for undergraduate students. Undergraduate teaching experience students will assist faculty members in preparing, delivering, and tearing down laboratory or discussion section instructional units in biology courses, conducting review sessions, and tutoring students under the direct supervision of a faculty mentor. S/NC only.

**PREREQ: GRADE OF B OR BETTER IN ASSIGNED COURSE AND A GPA OF 3.0 OR BETTER. APPROVAL OF FACULTY MENTOR AND THE BIOLOGICAL SCIENCES DEPARTMENT. □ □**

#3363 Section 01 [units: 1]

09/02-12/22 M 06:15 PM - 08:45 PM UH0302 Daryle A Waechter-Brulla

S/NC Grading Basis Only

**BIOLOGY 493 INTERNSHIP IN BIOLOGY ...** Variable topics.

#3365 Section 01 [units: 1-12]

Dept. Consent

09/02-12/22 T 06:15 PM - 08:45 PM UH0302 Bruce David Eshelman

S/NC Grading Basis Only

**BIOLOGY 498 INDEPENDENT STUDY ...** Study of a selected topic or topics under the direction of a faculty member. Repeatable for a maximum of 6 credits in major. One hour of discussion weekly plus laboratory hours by arrangement with instructor.

**PREREQ: BIOLOGY 141 AND BIOLOGY 142 AND 2.75 GPA IN BIOLOGY.**

#3367 Section 01 [units: 1-3]

Instructor Consent

09/02-12/22 W 06:15 PM - 08:45 PM UH0302 Kris Curran

#3469 Section 02 [units: 2]

Instructor Consent

09/02-12/22 Arranged Arranged Peter W Mesner Jr BIOTECH LAB METHODS II

#3481 Section 03 [units: 1-3]

Instructor Consent

09/02-12/22 Arranged Arranged Daryle A Waechter-Brulla

#6115 Section 04 [units: 1]

Instructor Consent

10/26-12/22 Arranged Arranged George V Clokey COUGAR WORKSHOP

S/NC Grading Basis Only

**BIOLOGY 498R INDEPENDENT STUDY - UNDERGRADUATE RESEARCH ...** Study of a selected topic or topics under the direction of a faculty member. One hour of discussion plus laboratory hours by arrangement with instructor. Repeatable.

**PREREQ: BIOLOGY 141 AND BIOLOGY 142 AND 2.75 GPA IN BIOLOGY.**

#6056 Section 01 [units: 1-3]

Dept. Consent

09/02-12/22 Arranged Arranged Kris Curran

*Start/End Dates Meeting Days Meeting Times Location Instructor Course Topic (if applicable)*

**BIOLOGY 499 BIOLOGY THESIS ...** A substantial research project written as a thesis. Two credits are taken in the first semester and three in the second semester. A proposal must be submitted at the midpoint of the first term and an oral defense takes place at the end of the second term. Thesis students must participate in BIOLOGY 498 discussions. Available only for senior students in Biology Honors Emphasis.

PREREQ: SENIOR STATUS

#3375 Section 01 [units: 2-3]

09/02-12/22 R 06:15 PM - 08:45 PM UH0302 Kris Curran

\*\*\* GRADUATE LEVEL COURSES \*\*\*

**BIOLOGY 798 INDIVIDUAL STUDIES ...** Study of a selected topic or topics under the direction of a faculty member.

#6116 Section 01 [units: 1]

Dept. Consent

10/26-12/22 Arranged Arranged George V Clokey COUGAR WORKSHOP  
P/F Grading Basis Only