

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

BIOLOGY 120 BIOLOGICAL FOUNDATIONS (GL) ... 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 MATH 140 OR WAIVER

#1468	Section 02	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	T	01:00 PM - 02:50 PM	UH0364	Linda Eshelman			
	01/17-05/19	TR	09:30 AM - 10:45 AM	UH0145	Daryle Waechter-Brulla			
#1471	Section 03	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	W	11:00 AM - 12:50 PM	UH0364	Michael Woller			
	01/17-05/19	MW	02:00 PM - 03:15 PM	UH0145	George Clokey			
#1588	Section 04	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	M	02:00 PM - 03:50 PM	UH0364	Kristen Curran			
	01/17-05/19	MWF	10:00 AM - 10:50 AM	UH0145	Brian O'Neill			
#1472	Section 05	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	W	01:00 PM - 02:50 PM	UH0364	Kristen Curran			
	01/17-05/19	MWF	10:00 AM - 10:50 AM	UH0145	Brian O'Neill			
#1496	Section 06	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	R	09:00 AM - 10:50 AM	UH0364	Linda Eshelman			
	01/17-05/19	MWF	10:00 AM - 10:50 AM	UH0145	Brian O'Neill			
#1502	Section 13	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	T	01:00 PM - 02:50 PM	UH0356	Elisabeth Harrahy			
	01/17-05/19	MWF	08:00 AM - 08:50 AM	UH0145	George Clokey			
#1591	Section 14	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	M	01:00 PM - 02:50 PM	UH0356	Nicholas Tippery			
	01/17-05/19	MWF	08:00 AM - 08:50 AM	UH0145	George Clokey			
#1592	Section 15	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	W	01:00 PM - 02:50 PM	UH0356	Elisabeth Harrahy			
	01/17-05/19	MWF	08:00 AM - 08:50 AM	UH0145	George Clokey			
#1532	Section 16	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	R	01:00 PM - 02:50 PM	UH0356	George Clokey			
	01/17-05/19	MWF	08:00 AM - 08:50 AM	UH0145	George Clokey			
#1533	Section 17	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	T	09:00 AM - 10:50 AM	UH0356	Elisabeth Harrahy			
	01/17-05/19	MWF	10:00 AM - 10:50 AM	UH0145	Brian O'Neill			
#1534	Section 18	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	T	11:00 AM - 12:50 PM	UH0356	Stephen Solheim			
	01/17-05/19	TR	09:30 AM - 10:45 AM	UH0145	Daryle Waechter-Brulla			
#1535	Section 19	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	T	03:00 PM - 04:50 PM	UH0356	George Clokey			
	01/17-05/19	TR	09:30 AM - 10:45 AM	UH0145	Daryle Waechter-Brulla			
#1536	Section 20	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	R	11:00 AM - 12:50 PM	UH0356	Stephen Solheim			
	01/17-05/19	TR	09:30 AM - 10:45 AM	UH0145	Daryle Waechter-Brulla			
#1585	Section 21	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	W	11:00 AM - 12:50 PM	UH0356	Stephen Solheim			
	01/17-05/19	MW	02:00 PM - 03:15 PM	UH0145	George Clokey			
#1595	Section 22	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	R	09:00 AM - 10:50 AM	UH0356	George Clokey			
	01/17-05/19	MW	02:00 PM - 03:15 PM	UH0145	George Clokey			
#1469	Section 24	[units: 4]	Gen Ed Laboratory (GL)					
	01/17-05/19	F	09:00 AM - 10:50 AM	UH0356	Stephen Solheim			
	01/17-05/19	MW	02:00 PM - 03:15 PM	UH0145	George Clokey			

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

BIOLOGY 141 INTRODUCTORY BIOLOGY I (GL) ... 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.

PREREQ: MATH 141 WITH A GRADE OF C OR BETTER OR WAIVER.

#1620	Section 01	[units: 5]	Gen Ed Laboratory (GL)				
	01/17-05/19	T	09:00 AM - 10:00 AM	UH0312	Stephen Levas	DISCUSSION	
	01/17-05/19	T	10:00 AM - 11:50 AM	UH0312	Stephen Levas		
	01/17-05/19	MWF	10:00 AM - 10:50 AM	UH0140	Kristen Curran		
#1475	Section 02	[units: 5]	Gen Ed Laboratory (GL)				
	01/17-05/19	T	02:00 PM - 03:00 PM	UH0312	Nathaly Cormier	DISCUSSION	
	01/17-05/19	T	03:00 PM - 04:50 PM	UH0312	Nathaly Cormier		
	01/17-05/19	MWF	10:00 AM - 10:50 AM	UH0140	Kristen Curran		
#1503	Section 03X	[units: 5]	Gen Ed Laboratory (GL)	NOTE: The lecture for this course requires purchase of a Clicker. Clickers can be purchased at the UWW Bookstore.			
	01/17-05/19	W	09:00 AM - 10:00 AM	UH0312	Andrea Romero	DISCUSSION	
	01/17-05/19	W	10:00 AM - 11:50 AM	UH0312	Andrea Romero		
	01/17-05/19	TR	09:30 AM - 10:45 AM	UH0140	Nadine Kriska		
#1504	Section 04	[units: 5]	Gen Ed Laboratory (GL)	NOTE: The lecture for this course requires purchase of a Clicker. Clickers can be purchased at the UWW Bookstore.			
	01/17-05/19	F	09:00 AM - 10:00 AM	UH0312	Nathaly Cormier	DISCUSSION	
	01/17-05/19	F	10:00 AM - 11:50 AM	UH0312	Nathaly Cormier		
	01/17-05/19	TR	09:30 AM - 10:45 AM	UH0140	Nadine Kriska		
#1524	Section 05	[units: 5]	Gen Ed Laboratory (GL)				
	01/17-05/19	R	09:00 AM - 10:00 AM	UH0312	Andrea Romero	DISCUSSION	
	01/17-05/19	R	10:00 AM - 11:50 AM	UH0312	Andrea Romero		
	01/17-05/19	TR	03:30 PM - 04:45 PM	UH0140	Nadine Kriska		
#1541	Section 06	[units: 5]	Gen Ed Laboratory (GL)				
	01/17-05/19	W	02:00 PM - 03:00 PM	UH0312	Linda Eshelman	DISCUSSION	
	01/17-05/19	W	03:00 PM - 04:50 PM	UH0312	Linda Eshelman		
	01/17-05/19	TR	03:30 PM - 04:45 PM	UH0140	Nadine Kriska		

BIOLOGY 142 INTRODUCTORY BIOLOGY II (GL) ... 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 AND MATH 141 BOTH WITH A GRADE OF C OR BETTER

#1477	Section 01	[units: 5]	Gen Ed Laboratory (GL)				
	01/17-05/19	T	09:00 AM - 10:00 AM	UH0306	Brian O'Neill	DISCUSSION	
	01/17-05/19	T	10:00 AM - 11:50 AM	UH0306	Brian O'Neill		
	01/17-05/19	MW	02:00 PM - 03:15 PM	UH0140	Nadine Kriska		
#1601	Section 02	[units: 5]	Gen Ed Laboratory (GL)				
	01/17-05/19	T	02:00 PM - 03:00 PM	UH0306	Stephen Levas	DISCUSSION	
	01/17-05/19	T	03:00 PM - 04:50 PM	UH0306	Stephen Levas		
	01/17-05/19	MWF	09:00 AM - 09:50 AM	UH0140	Joshua Kapfer		
#1505	Section 03X	[units: 5]	Gen Ed Laboratory (GL)				
	01/17-05/19	W	09:00 AM - 10:00 AM	UH0306	Nadine Kriska	DISCUSSION	
	01/17-05/19	W	10:00 AM - 11:50 AM	UH0306	Nadine Kriska		
	01/17-05/19	MW	02:00 PM - 03:15 PM	UH0140	Nadine Kriska		
#1511	Section 04	[units: 5]	Gen Ed Laboratory (GL)				
	01/17-05/19	W	02:00 PM - 03:00 PM	UH0306	Brian O'Neill	DISCUSSION	
	01/17-05/19	W	03:00 PM - 04:50 PM	UH0306	Brian O'Neill		
	01/17-05/19	MWF	09:00 AM - 09:50 AM	UH0140	Joshua Kapfer		
#1523	Section 05	[units: 5]	Gen Ed Laboratory (GL)				
	01/17-05/19	M	09:00 AM - 10:00 AM	UH0306	Linda Eshelman	DISCUSSION	
	01/17-05/19	M	10:00 AM - 11:50 AM	UH0306	Linda Eshelman		
	01/17-05/19	MW	02:00 PM - 03:15 PM	UH0140	Nadine Kriska		

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 any Biology major or minor.

PREREQ: ENGLISH 102, BIOLOGY 141 & BIOLOGY 142 ALL WITH A GRADE OF C OR BETTER

#1617	Section 01C	[units: 3]	NOTE: This is a web based course. An additional fee of \$150 will be assessed for this course.				
	01/17-05/19	Arranged	Arranged	WEB BASED	Anneke Lisberg		

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

BIOLOGY 214 ECOLOGY AND SOCIETY (GM) ... 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.

#1506	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/17-05/19	TR	11:00 AM - 12:15 PM	UH0142	George Clokey		
#1525	Section 02	[units: 3]	Gen Ed Math/Natural Sciences (GM)		NOTE: Restricted to students with BSE curriculum		
	01/17-05/19	MW	11:00 AM - 12:15 PM	UH0142	Elisabeth Harrahy		
#1606	Section 03	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/17-05/19	MWF	08:00 AM - 08:50 AM	UH0238	Stephen Solheim		

BIOLOGY 220 INTRODUCTION TO EPIDEMIOLOGY (GM) ... Introduction to basic principles of tracking changes in health indicators and problems in modern society. We will cover both current and historical cases to learn techniques of gathering information, analysis, and application. Problems will include infectious diseases, environmental problems, and other areas of concern in population health.

PREREQ: MATH 141 OR WAIVER OF MATH 141

#1616	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)				
	01/17-05/19	MWF	09:00 AM - 09:50 AM	UH0145	Daryle Waechter-Brulla		

BIOLOGY 225 SCIENCE OF FORENSIC ANALYSIS ... An introduction to the scientific foundation of techniques used for criminal investigation.

PREREQ: MATH 141 AND TWO UNIVERSITY LEVEL LAB SCIENCE COURSES.

#1509	Section 01	[units: 4]					
	01/17-05/19	M	02:00 PM - 04:50 PM	UH0202	Daryle Waechter-Brulla		
	01/17-05/19	MWF	01:00 PM - 01:50 PM	UH0302	Daryle Waechter-Brulla		

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 141, BIOLOGY 142, MATH 141 AND CHEM 102, ALL WITH A GRADE OF C OR BETTER

#1479	Section 01	[units: 4]	NOTE: The lecture for this course requires purchase of a Clicker. Clickers can be purchased at the UWW Bookstore.				
	01/17-05/19	M	10:00 AM - 12:50 PM	UH0206	Nadine Kriska		
	01/17-05/19	TR	09:30 AM - 10:45 AM	UH0142	Nicholas Tippery		
#1480	Section 02	[units: 4]	NOTE: The lecture for this course requires purchase of a Clicker. Clickers can be purchased at the UWW Bookstore.				
	01/17-05/19	W	09:00 AM - 11:50 AM	UH0206	Nicholas Tippery		
	01/17-05/19	TR	09:30 AM - 10:45 AM	UH0142	Nicholas Tippery		
#1515	Section 03	[units: 4]	NOTE: The lecture for this course requires purchase of a Clicker. Clickers can be purchased at the UWW Bookstore.				
	01/17-05/19	T	10:00 AM - 12:50 PM	UH0206	Kirsten Crossgrove		
	01/17-05/19	MWF	10:00 AM - 10:50 AM	UH0142	Kirsten Crossgrove		
#1596	Section 04	[units: 4]	NOTE: The lecture for this course requires purchase of a Clicker. Clickers can be purchased at the UWW Bookstore.				
	01/17-05/19	T	02:00 PM - 04:50 PM	UH0206	Kirsten Crossgrove		
	01/17-05/19	MWF	10:00 AM - 10:50 AM	UH0142	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

#1481	Section 01	[units: 3]					
	01/17-05/19	TR	08:00 AM - 09:15 AM	UH0142	Peter Mesner		
#1512	Section 02	[units: 3]					
	01/17-05/19	MWF	09:00 AM - 09:50 AM	UH0142	Heather Pelzel		

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

#1516	Section 01	[units: 2]					
	01/17-05/19	M	01:00 PM - 03:50 PM	UH0206	Nathaly Cormier		
#1603	Section 02	[units: 2]					
	01/17-05/19	R	09:00 AM - 11:50 AM	UH0206	Nathaly Cormier		
#1526	Section 03	[units: 2]					
	01/17-05/19	R	01:00 PM - 03:50 PM	UH0206	Nathaly Cormier		

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

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

#1507	Section 01	[units: 3]				
	01/17-05/19	TR	08:00 AM - 09:15 AM	UH0144	Stephen Solheim	
#1517	Section 02	[units: 3]				
	01/17-05/19	MWF	08:00 AM - 08:50 AM	UH0142	Brian O'Neill	
#1542	Section 03	[units: 3]				
	01/17-05/19	MW	03:30 PM - 04:45 PM	UH0142	Bruce Eshelman	

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

#1580	Section 01	[units: 2]	NOTE: Required additional course fee is \$25.00.			
	03/13-05/19	MF	01:00 PM - 04:50 PM	UH0360	Joshua Kapfer	

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 BIOLOGY 110 OR 4 CREDITS IN BIOLOGY

#1581	Section 01	[units: 3]				
	01/17-05/19	MW	03:30 PM - 04:45 PM	UH0140	Meg Waraczynski	

BIOLOGY 303 BIostatISTICS ... Students will learn fundamentals of hypothesis formation and testing, using a variety of univariate statistical methods. Consideration of experimental design and the evaluation of research methodologies published in the biological literature are explored in detail. Students will gain practical experience with implementation of statistical analyses using real world datasets and communicating these results effectively.

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

#1486	Section 01	[units: 4]				
	01/17-05/19	T	11:00 AM - 12:50 PM	UH0262	Bruce Eshelman	DISCUSSION
	01/17-05/19	MWF	09:00 AM - 09:50 AM	HH2303	Bruce Eshelman	
#1487	Section 02	[units: 4]				
	01/17-05/19	W	11:00 AM - 12:50 PM	UH0302	Bruce Eshelman	DISCUSSION
	01/17-05/19	MWF	09:00 AM - 09:50 AM	HH2303	Bruce Eshelman	

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 term.

PREREQ: BIOLOGY 141, BIOLOGY 142, BIOLOGY 251, BIOLOGY 253, CHEM 102, CHEM 104 WITH A GRADE OF C OR BETTER; COREQ: CHEM 251 (RECOMMENDED ONLY)

#1529	Section 01	[units: 4]				
	01/17-05/19	T	09:00 AM - 11:50 AM	UH0202	Heather Pelzel	
	01/17-05/19	MWF	10:00 AM - 10:50 AM	HH2303	Heather Pelzel	
#1539	Section 02	[units: 4]				
	01/17-05/19	T	01:00 PM - 03:50 PM	UH0202	Heather Pelzel	
	01/17-05/19	MWF	10:00 AM - 10:50 AM	HH2303	Heather Pelzel	

BIOLOGY 341 DEVELOPMENTAL BIOLOGY ... Explores the processes of embryonic development in plants and animals, emphasizing the experimental basis of contemporary knowledge in embryogenesis, morphogenesis, and in cell and tissue differentiation. The laboratory illustrates principles and processes in early development and includes the use of basic microscopy and imaging techniques to study embryonic processes. Skills in observation, experimental design, and data presentation will be developed.

PREREQ: BIOLOGY 251 AND BIOLOGY 253 WITH A GRADE OF C OR BETTER OR EQUIVALENTS

#1583	Section 01L	[units: 4]				
	01/17-05/19	T	02:00 PM - 04:50 PM	UH0360	Kristen Curran	
	01/17-05/19	MWF	09:00 AM - 09:50 AM	UH0360	Kristen Curran	

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.

PREREQ: BIOLOGY 253 WITH A GRADE OF C OR BETTER OR EQUIVALENT

#1494	Section 01	[units: 4]				
	01/17-05/19	T	02:00 PM - 04:45 PM	UH0266	Michael Woller	
	01/17-05/19	MW	09:30 AM - 10:45 AM	UH0238	Michael Woller	

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

BIOLOGY 353 PLANT TAXONOMY ... *The principles of plant classification and identification, with emphasis on flowering plants of this region. Lectures, laboratories and field trips.*

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

#1519 Section 01L [units: 4] NOTE: Required additional lab fee is \$15.00

01/17-05/19 R 02:00 PM - 04:50 PM UH0360 Nicholas Tippery

01/17-05/19 TR 12:30 PM - 01:45 PM UH0238 Nicholas Tippery

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.*

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

#1513 Section 01L [units: 4]

01/17-05/19 W 01:00 PM - 03:50 PM UH0266 Ellen Davis

01/17-05/19 MW 09:30 AM - 10:45 AM UH0302 Ellen Davis

#1527 Section 02L [units: 4]

01/17-05/19 M 08:00 AM - 10:50 AM UH0266 Peter Mesner

01/17-05/19 TR 12:30 PM - 01:45 PM UH0142 Peter Mesner

#1604 Section 03L [units: 4]

01/17-05/19 M 01:00 PM - 03:50 PM UH0266 Peter Mesner

01/17-05/19 TR 12:30 PM - 01:45 PM UH0142 Peter Mesner

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.*

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

#1489 Section 01 [units: 4]

01/17-05/19 W 09:00 AM - 11:50 AM UH0266 Anneke Lisberg

01/17-05/19 TR 12:30 PM - 01:45 PM HH2317 Anneke Lisberg

#1610 Section 02 [units: 4]

01/17-05/19 T 09:00 AM - 11:50 AM UH0266 Anneke Lisberg

01/17-05/19 TR 12:30 PM - 01:45 PM HH2317 Anneke Lisberg

BIOLOGY 363 MOLECULAR BIOLOGY ... *The study of how nucleic acids and proteins interact to control the cell. Topics include DNA replication, chromosome structure, transcription, translation, control of gene expression, gene evolution and genomics. Experimental approaches to studying molecular biology are emphasized. Three hours of lecture per week.*

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

#1584 Section 01C [units: 3]

01/17-05/19 MWF 01:00 PM - 01:50 PM UH0238 Kirsten Crossgrove

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

#1491 Section 01 [units: 0.5]

01/17-05/19 F 12:00 PM - 12:50 PM UH0145 Kerry Katovich

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 BIOLOGY 390.*

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

#1492 Section 01 [units: 0.5]

01/17-05/19 F 12:00 PM - 12:50 PM UH0145 Kerry Katovich

S/NC Grading Basis Only

BIOLOGY 430 ANIMAL BEHAVIOR ... *Behavior of animals as individuals and groups, including study of causation, development, integration, evolution and adaptive value of behavior patterns. Lecture and laboratory.*

PREREQ: JUNIOR STANDING AND ONE OF THE FOLLOWING: BIOLOGY 142 WITH A GRADE OF 'C' OR BETTER OR BIOLOGY 120 WITH A GRADE OF 'B' OR BETTER OR PSYCH 211 WITH A GRADE OF 'C' OR BETTER

#3511 Section 01L [units: 4]

01/17-05/19 T 09:00 AM - 11:50 AM UH0302 Ellen Davis

01/17-05/19 TR 12:30 PM - 01:45 PM UH0302 Ellen Davis

Start/End Dates	Meeting Days	Meeting Times	Location	Instructor	Course Topic (if applicable)
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BIOLOGY 442 ENVIRONMENTAL TOXICOLOGY ... This course is an introduction to environmental toxicology that focuses on sources, transport, fate, accumulation, and toxicity of contaminants. Principles of toxicity testing and analysis of effects at different levels of biological organization (molecular to ecosystem) are covered. Information on select classes of contaminants, including emerging contaminants of concern are presented.

PREREQ: CHEM 102 AND BIOLOGY 214 OR BIOLOGY 257 WITH A GRADE OF C OR BETTER

#1520 Section 01C [units: 3] NOTE: Required additional course fee is \$25.00

01/17-05/19	MWF	10:00 AM - 10:50 AM	UH0143	Elisabeth Harrahy	
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BIOLOGY 446 ORGANIC EVOLUTION ... History of evolutionary thought, evidences of evolution and analysis of evolutionary mechanisms and processes.

PREREQ: BIOLOGY 251 WITH A GRADE OF C OR BETTER AND EITHER (BIOLOGY 303, PSYCH 215, MATH 230, OR MATH 342) WITH A GRADE OF C OR BETTER.

#1490 Section 01 [units: 4] NOTE: This is a hybrid course that meets both online and in the classroom.

01/17-05/19	W	02:00 PM - 03:15 PM	UH0238	Robert Kuzoff	
01/17-05/19	Arranged	Arranged	WEB BASED	Robert Kuzoff	DISCUSSION

BIOLOGY 448 BIOINFORMATICS ... Bioinformatics is an introduction to computer applications and algorithms currently used in the analysis of biological data, especially genomic and sequence data. The course entails lectures, discussions, readings and hands-on experience with bioinformatic software. Through exercises and individual research projects students acquire a working knowledge of contemporary computational methods and software.

PREREQ: BIOLOGY 141 WITH A GRADE OF C OR BETTER AND ONE OF THE FOLLOWING WITH A GRADE OF C OR BETTER: BIOLOGY 303, PSYCH 215, MATH 230, OR MATH 342

#1522 Section 01C [units: 3]

01/17-05/19	TR	02:00 PM - 03:15 PM	UH0238	Robert Kuzoff	
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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 & BIOLOGY 142

#1598 Section 01 [units: 4]

01/17-05/19	R	09:00 AM - 11:50 AM	UH0302	Kerry Katovich	
01/17-05/19	MWF	10:00 AM - 10:50 AM	UH0360	Kerry Katovich	

BIOLOGY 456 BIOCHEMISTRY OF METABOLISM AND SIGNALING ... The chemistry of biological systems, focusing on metabolism and biochemical signaling. Three lectures/week. For Chemistry majors (Biochemistry emphasis), Biology majors (allied health focus) and students interested in Biochemistry postgraduate education.

PREREQ: C OR BETTER IN BIOLOGY 120 OR BIOLOGY 141 (OR EQUIVALENT) OR INSTRUCTOR CONSENT AND BIOLOGY 251 AND BIOLOGY 253 AND CHEM 251 OR CHEM 454 AND CHEM 251

#1537 Section 01 [units: 3]

01/17-05/19	TR	12:30 PM - 01:45 PM	UH0144	Christopher Veldkamp	
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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

#1531 Section 01 [units: 4] NOTE: Required additional course fee is \$25.

01/17-05/19	W	02:00 PM - 04:50 PM	UH0360	Joshua Kapfer	
01/17-05/19	MWF	08:00 AM - 08:50 AM	UH0360	Joshua Kapfer	

BIOLOGY 491 TRAVEL STUDY ... Variable topics. Faculty-led field courses. Prereq: Consent of instructor.

#3989 Section 01 [units: 3] NOTE: Class sessions will be announced by the course faculty member(s). Students will also participate in the faculty-led international component of the course scheduled for Ecuador from May 20th to June 6th, 2017. You can complete an online application by going to: https://uww.studioabroad.com/index.cfm?FuseAction=Program.ViewProgram&Program_ID=42063 Contact Professors Linda Eshelman (eshelma@uww.edu) or Bruce Eshelman (eshelmab@uww.edu) for academic requirements or for more information about the course. Applications are due to the Center for Global Education on or before Friday, December 9, 2016. The majority of the estimated Travel Study Program Course fee, as noted on the course application, will be charged to the student's account shortly thereafter. The second and final billing of the balance will occur at a later date. Travel Study registration is not available via WINS registration. Travel Study participants may not add or drop a travel study course via WINS once it has been added to their academic schedule. Failure to abide by the add/drop provisions of the Travel Study Program could result in severe financial penalties. Students are advised to refer to the Travel Study Application and Student Contract for more information.

Dept. Consent

PREREQ: BIOLOGY 120 OR BIOLOGY 141 OR CONSENT OF INSTRUCTOR

01/17-05/19	T	05:00 PM - 07:00 PM	UH0142	Linda Eshelman	ECUADOR
01/17-05/19	T	05:00 PM - 07:00 PM	UH0142	Bruce Eshelman	ECUADOR

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. □

#1482 Section 01 [units: 1]

Dept. Consent

01/17-05/19	Arranged	Arranged	ARRANGED	Nicholas Tippery	
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S/NC Grading Basis Only

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

BIOLOGY 493 INTERNSHIP IN BIOLOGY ... Variable topics.

#1483 Section 01 [units: 1-12] Dept. Consent
 01/17-05/19 Arranged Arranged ARRANGED Bruce Eshelman
 S/NC Grading Basis Only

BIOLOGY 498 INDEPENDENT STUDY ... Typical projects may include helping researchers in conducting research projects or helping instructors develop pedagogical tools for their courses. Eligible students who are conducting their own research projects should enroll in Biology 498R. Repeatable for a maximum of 6 credits in major and degree or 2 units in the minor.

PREREQ: BIOLOGY 141, BIOLOGY 142 AND A 2.0 GRADE POINT AVERAGE IN BIOLOGY

#1484 Section 01 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Catherine Chan
 S/NC Grading Basis Only

#1538 Section 02 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged George Clokey
 S/NC Grading Basis Only

#1543 Section 03 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Nathaly Cormier
 S/NC Grading Basis Only

#1544 Section 04 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Kirsten Crossgrove
 S/NC Grading Basis Only

#1545 Section 05 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Kristen Curran
 S/NC Grading Basis Only

#1546 Section 06 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Ellen Davis
 S/NC Grading Basis Only

#1547 Section 07 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Bruce Eshelman
 S/NC Grading Basis Only

#1548 Section 08 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Elisabeth Harrahy
 S/NC Grading Basis Only

#1549 Section 09 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Joshua Kapfer
 S/NC Grading Basis Only

#1550 Section 10 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Kerry Katovich
 S/NC Grading Basis Only

#1551 Section 11 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Nadine Kriska
 S/NC Grading Basis Only

#1552 Section 12 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Robert Kuzoff
 S/NC Grading Basis Only

#1553 Section 13 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Stephen Levas
 S/NC Grading Basis Only

#1554 Section 14 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Anneke Lisberg
 S/NC Grading Basis Only

#1555 Section 15 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Peter Mesner
 S/NC Grading Basis Only

#1556 Section 16 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Brian O'Neill
 S/NC Grading Basis Only

#1557 Section 17 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Heather Pelzel
 S/NC Grading Basis Only

#1558 Section 18 [units: 1-3] Instructor Consent
 01/17-05/19 Arranged Arranged Andrea Romero
 S/NC Grading Basis Only

<u>Class#</u>	<u>Section</u>	<u>(Units)</u>	<u>General Education Designation (if any)</u>	<u>Start/End Dates</u>	<u>Meeting Days</u>	<u>Meeting Times</u>	<u>Location</u>	<u>Instructor</u>	<u>Course Topic (if applicable)</u>	<u>Consent</u>
#1559	Section 19	[units: 1-3]		01/17-05/19	Arranged	Arranged		Nicholas Tippery		Instructor Consent
	S/NC Grading Basis Only									
#1560	Section 20	[units: 1-3]		01/17-05/19	Arranged	Arranged		Daryle Waechter-Brulla		Instructor Consent
	S/NC Grading Basis Only									
#1587	Section 21	[units: 1-3]		01/17-05/19	Arranged	Arranged		Michael Woller		Instructor Consent
	S/NC Grading Basis Only									
#1607	Section 22	[units: 1-3]		01/17-05/19	Arranged	Arranged		Stephen Solheim		Instructor Consent
	S/NC Grading Basis Only									

BIOLOGY 498R INDEPENDENT STUDY - UNDERGRADUATE RESEARCH ... Students will complete and present an undergraduate research project under the direction of a faculty mentor. Projects may require more than one semester to complete. Repeatable for a maximum of 6 units in major and degree or 2 in the minor.

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

#1521	Section 01	[units: 1-3]		01/17-05/19	Arranged	Arranged		George Clokey		Dept. Consent
#1561	Section 02	[units: 1-3]		01/17-05/19	Arranged	Arranged		Nathaly Cormier		Dept. Consent
#1562	Section 03	[units: 1-3]		01/17-05/19	Arranged	Arranged		Kirsten Crossgrove		Dept. Consent
#1563	Section 04	[units: 1-3]		01/17-05/19	Arranged	Arranged		Kristen Curran		Dept. Consent
#1564	Section 05	[units: 1-3]		01/17-05/19	Arranged	Arranged		Ellen Davis		Dept. Consent
#1565	Section 06	[units: 1-3]		01/17-05/19	Arranged	Arranged		Bruce Eshelman		Dept. Consent
#1566	Section 07	[units: 1-3]		01/17-05/19	Arranged	Arranged		Elisabeth Harrahy		Dept. Consent
#1567	Section 08	[units: 1-3]		01/17-05/19	Arranged	Arranged		Joshua Kapfer		Dept. Consent
#1568	Section 09	[units: 1-3]		01/17-05/19	Arranged	Arranged		Kerry Katovich		Dept. Consent
#1569	Section 10	[units: 1-3]		01/17-05/19	Arranged	Arranged		Nadine Kriska		Dept. Consent
#1570	Section 11	[units: 1-3]		01/17-05/19	Arranged	Arranged		Robert Kuzoff		Dept. Consent
#1571	Section 12	[units: 1-3]		01/17-05/19	Arranged	Arranged		Stephen Levas		Dept. Consent
#1572	Section 13	[units: 1-3]		01/17-05/19	Arranged	Arranged		Anneke Lisberg		Dept. Consent
#1573	Section 14	[units: 1-3]		01/17-05/19	Arranged	Arranged		Peter Mesner		Dept. Consent
#1574	Section 15	[units: 1-3]		01/17-05/19	Arranged	Arranged		Brian O'Neill		Dept. Consent
#1575	Section 16	[units: 1-3]		01/17-05/19	Arranged	Arranged		Heather Pelzel		Dept. Consent
#1576	Section 17	[units: 1-3]		01/17-05/19	Arranged	Arranged		Andrea Romero		Dept. Consent
#1577	Section 18	[units: 1-3]		01/17-05/19	Arranged	Arranged		Stephen Solheim		Dept. Consent
#1578	Section 19	[units: 1-3]		01/17-05/19	Arranged	Arranged		Nicholas Tippery		Dept. Consent
#1579	Section 20	[units: 1-3]		01/17-05/19	Arranged	Arranged		Daryle Waechter-Brulla		Dept. Consent
#1586	Section 21	[units: 1-3]		01/17-05/19	Arranged	Arranged		Meg Waraczynski		Dept. Consent
#1618	Section 22	[units: 1-3]		01/17-05/19	Arranged	Arranged		Michael Woller		Dept. Consent
#1619	Section 23	[units: 1-3]		01/17-05/19	Arranged	Arranged		Catherine Chan		Dept. Consent

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

#1495 Section 01 [units: 2-3]

Dept. Consent

01/17-05/19 Arranged Arranged

Kerry Katovich

#1600 Section 02 [units: 2-3]

01/17-05/19 Arranged Arranged

Meg Waraczynski