

*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

#1935	Section 01	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	M	01:00 PM - 02:50 PM	UH0364	Linda Eshelman			
	09/06-12/22	MW	09:30 AM - 10:45 AM	UH0145	Daryle Waechter-Brulla			
#1936	Section 02	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	T	09:00 AM - 10:50 AM	UH0364	Linda Eshelman			
	09/06-12/22	MW	09:30 AM - 10:45 AM	UH0145	Daryle Waechter-Brulla			
#1937	Section 03	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	W	01:00 PM - 02:50 PM	UH0364	Kristen Curran			
	09/06-12/22	MW	09:30 AM - 10:45 AM	UH0145	Daryle Waechter-Brulla			
#1967	Section 04P	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	T	01:00 PM - 02:50 PM	UH0364	Bruce Eshelman	PATHWAYS		
	09/06-12/22	MW	02:00 PM - 03:15 PM	UH0145	George Clokey			
#1968	Section 05	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	T	11:00 AM - 12:50 PM	UH0364	Stephen Solheim			
	09/06-12/22	MW	02:00 PM - 03:15 PM	UH0145	George Clokey			
#4694	Section 06	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	W	11:00 AM - 12:50 PM	UH0364	Bruce Eshelman			
	09/06-12/22	MW	02:00 PM - 03:15 PM	UH0145	George Clokey			
#1969	Section 06P	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	W	11:00 AM - 12:50 PM	UH0364	Bruce Eshelman			
	09/06-12/22	MW	02:00 PM - 03:15 PM	UH0145	George Clokey			
#1970	Section 07	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	M	10:00 AM - 11:50 AM	UH0364	Nathaly Cormier			
	09/06-12/22	MWF	08:00 AM - 08:50 AM	UH0145	George Clokey			
#1972	Section 08	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	T	03:00 PM - 04:50 PM	UH0364	Daryle Waechter-Brulla			
	09/06-12/22	MWF	08:00 AM - 08:50 AM	UH0145	George Clokey			
#1973	Section 09	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	R	01:00 PM - 02:50 PM	UH0364	Stephen Solheim			
	09/06-12/22	MWF	08:00 AM - 08:50 AM	UH0145	George Clokey			
#1974	Section 10	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	T	11:00 AM - 12:50 PM	UH0356	Daryle Waechter-Brulla			
	09/06-12/22	MWF	11:00 AM - 11:50 AM	UH0145	Brian O'Neill			
#1992	Section 11	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	T	01:00 PM - 02:50 PM	UH0356	Elisabeth Harrahy			
	09/06-12/22	MWF	11:00 AM - 11:50 AM	UH0145	Brian O'Neill			
#1975	Section 12	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	W	01:00 PM - 02:50 PM	UH0356	Elisabeth Harrahy			
	09/06-12/22	MWF	11:00 AM - 11:50 AM	UH0145	Brian O'Neill			
#1976	Section 13	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	F	09:00 AM - 10:50 AM	UH0356	George Clokey			
	09/06-12/22	Arranged	Arranged	WEB BASED	Andrea Romero			
#1977	Section 14	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	W	11:00 AM - 12:50 PM	UH0356	George Clokey			
	09/06-12/22	Arranged	Arranged	WEB BASED	Andrea Romero			
#1979	Section 15	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	W	03:00 PM - 04:50 PM	UH0356	Nathaly Cormier			
	09/06-12/22	Arranged	Arranged	WEB BASED	Andrea Romero			
#1980	Section 16	[units: 4]	Gen Ed Laboratory (GL)					
	09/06-12/22	R	10:00 AM - 11:50 AM	UH0356	Stephen Levas			
	09/06-12/22	Arranged	Arranged	WEB BASED	Andrea Romero			

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.

#2084 Section 01 [units: 5] Gen Ed Laboratory (GL)

PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR

09/06-12/22 W 02:00 PM - 03:00 PM UH0312 Daryle Waechter-Brulla

09/06-12/22 W 03:00 PM - 04:50 PM UH0312 Daryle Waechter-Brulla

09/06-12/22 TR 09:30 AM - 10:45 AM UH0140 Daryle Waechter-Brulla

#2091 Section 02 [units: 5] Gen Ed Laboratory (GL)

PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR

09/06-12/22 W 09:00 AM - 10:00 AM UH0312 Andrea Romero

09/06-12/22 W 10:00 AM - 11:50 AM UH0312 Andrea Romero

09/06-12/22 TR 09:30 AM - 10:45 AM UH0140 Daryle Waechter-Brulla

#1942 Section 03 [units: 5] Gen Ed Laboratory (GL)

PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR

09/06-12/22 R 02:00 PM - 03:00 PM UH0312 Linda Eshelman

09/06-12/22 R 03:00 PM - 04:50 PM UH0312 Linda Eshelman

09/06-12/22 MW 03:30 PM - 04:45 PM UH0142 Robert Kuzoff

#1940 Section 03X [units: 5] Gen Ed Laboratory (GL)

PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR

09/06-12/22 R 02:00 PM - 03:00 PM UH0312 Linda Eshelman

09/06-12/22 R 03:00 PM - 04:50 PM UH0312 Linda Eshelman

09/06-12/22 MW 03:30 PM - 04:45 PM UH0142 Robert Kuzoff

#1943 Section 04 [units: 5] Gen Ed Laboratory (GL)

PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR

09/06-12/22 R 09:00 AM - 10:00 AM UH0312 Linda Eshelman

09/06-12/22 R 10:00 AM - 11:50 AM UH0312 Linda Eshelman

09/06-12/22 MW 03:30 PM - 04:45 PM UH0142 Robert Kuzoff

#1960 Section 05 [units: 5] Gen Ed Laboratory (GL)

PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR

09/06-12/22 F 09:00 AM - 10:00 AM UH0312 Nathaly Cormier

09/06-12/22 F 10:00 AM - 11:50 AM UH0312 Nathaly Cormier

09/06-12/22 MW 02:00 PM - 03:15 PM UH0140 Nadine Kriska

#1984 Section 06 [units: 5] Gen Ed Laboratory (GL)

PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR

09/06-12/22 T 09:00 AM - 10:00 AM UH0312 Brian O'Neill

09/06-12/22 T 10:00 AM - 11:50 AM UH0312 Brian O'Neill

09/06-12/22 MW 02:00 PM - 03:15 PM UH0140 Nadine Kriska

#2011 Section 07 [units: 5] Gen Ed Laboratory (GL)

PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR

09/06-12/22 M 09:00 AM - 10:00 AM UH0312 Kristen Curran

09/06-12/22 M 10:00 AM - 11:50 AM UH0312 Kristen Curran

09/06-12/22 MW 02:00 PM - 03:15 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

#1945 Section 01 [units: 5] Gen Ed Laboratory (GL)

09/06-12/22 W 09:00 AM - 10:00 AM UH0306 Joshua Kapfer

09/06-12/22 W 10:00 AM - 11:50 AM UH0306 Joshua Kapfer

09/06-12/22 MF 09:30 AM - 10:45 AM UH0140 Joshua Kapfer

#1982 Section 02 [units: 5] Gen Ed Laboratory (GL)

09/06-12/22 T 02:00 PM - 03:00 PM UH0306 Linda Eshelman

09/06-12/22 T 03:00 PM - 04:50 PM UH0306 Linda Eshelman

09/06-12/22 MF 09:30 AM - 10:45 AM UH0140 Joshua Kapfer

#1983 Section 03 [units: 5] Gen Ed Laboratory (GL)

09/06-12/22 R 09:00 AM - 10:00 AM UH0306 Nadine Kriska

09/06-12/22 R 10:00 AM - 11:50 AM UH0306 Nadine Kriska

09/06-12/22 MF 09:30 AM - 10:45 AM UH0140 Joshua Kapfer

	<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>
#2014	Section 04	[units: 5]	Gen Ed Laboratory (GL)			
	09/06-12/22	T	09:00 AM - 10:00 AM	UH0306	Stephen Levas	
	09/06-12/22	T	10:00 AM - 11:50 AM	UH0306	Stephen Levas	
	09/06-12/22	TR	03:30 PM - 04:45 PM	UH0142	Kerry Katovich	
#2007	Section 05	[units: 5]	Gen Ed Laboratory (GL)			
	09/06-12/22	W	02:00 PM - 03:00 PM	UH0306	Linda Eshelman	
	09/06-12/22	W	03:00 PM - 04:50 PM	UH0306	Linda Eshelman	
	09/06-12/22	TR	03:30 PM - 04:45 PM	UH0142	Kerry Katovich	
#2072	Section 06	[units: 5]	Gen Ed Laboratory (GL)			
	09/06-12/22	M	02:00 PM - 03:00 PM	UH0306	Kerry Katovich	
	09/06-12/22	M	03:00 PM - 04:50 PM	UH0306	Kerry Katovich	
	09/06-12/22	TR	03:30 PM - 04:45 PM	UH0142	Kerry Katovich	

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

#1946 Section 01 [units: 3] NOTE: This course will be taught using Desire2Learn. A short while before class, information will be sent to each student's UWW email address. Required additional fee of \$150 will be assessed for this class.

09/06-12/22 Arranged Arranged WEB BASED Kristen Curran

#2081 Section 02 [units: 3] NOTE: This course will be taught using Desire2Learn. A short while before class, information will be sent to each student's UWW email address. Required additional fee of \$150 will be assessed for this class.

09/06-12/22 Arranged Arranged WEB BASED Nadine Kriska

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.

#1947 Section 01 [units: 3] Gen Ed Math/Natural Sciences (GM) NOTE: Restricted to BSE majors only.

PREREQ: RESTRICTED TO STUDENTS WITH BSE CURRICULUM

09/06-12/22 TR 08:00 AM - 09:15 AM UH0140 George Clokey

#2002 Section 03 [units: 3] Gen Ed Math/Natural Sciences (GM)

09/06-12/22 MW 09:30 AM - 10:45 AM UH0236 Stephen Solheim

#2015 Section 04 [units: 3] Gen Ed Math/Natural Sciences (GM)

09/06-12/22 TR 09:30 AM - 10:45 AM UH0144 George Clokey

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

#1950 Section 02 [units: 4] NOTE: The lecture for this course requires purchase of a clicker. Clickers can be purchased at the UWW bookstore.

09/06-12/22 T 02:00 PM - 04:50 PM UH0206 Kirsten Crossgrove

09/06-12/22 MWF 10:00 AM - 10:50 AM UH0142 Kirsten Crossgrove

#1994 Section 03 [units: 4] NOTE: The lecture for this course requires purchase of a clicker. Clickers can be purchased at the UWW bookstore.

09/06-12/22 T 10:00 AM - 12:50 PM UH0206 Kirsten Crossgrove

09/06-12/22 MWF 10:00 AM - 10:50 AM UH0142 Kirsten Crossgrove

#2004 Section 04 [units: 4] NOTE: The lecture for this course requires purchase of a clicker. Clickers can be purchased at the UWW bookstore.

09/06-12/22 W 02:00 PM - 04:50 PM UH0206 Nicholas Tippery

09/06-12/22 TR 09:30 AM - 10:45 AM UH0142 Nicholas Tippery

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

#1951 Section 01 [units: 3]

09/06-12/22 MWF 09:00 AM - 09:50 AM UH0142 Heather Pelzel

#1990 Section 02 [units: 3]

09/06-12/22 TR 08:00 AM - 09:15 AM UH0142 Peter Mesner

#2010 Section 03 [units: 3] NOTE: The lecture for this course requires purchase of a clicker. Clickers can be purchased at the UWW bookstore.

09/06-12/22 TR 02:00 PM - 03:15 PM HE0102 Kristen 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

#1952 Section 01 [units: 2]

09/06-12/22 M 01:00 PM - 03:50 PM UH0206 Nathaly Cormier

	<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>
#1986	Section 02	[units: 2]				
	09/06-12/22	R	09:00 AM - 11:50 AM	UH0206	Nathaly Cormier	
#2008	Section 03	[units: 2]				
	09/06-12/22	R	02:00 PM - 04:50 PM	UH0206	Nathaly Cormier	

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

#1953	Section 01	[units: 3]				
	09/06-12/22	MW	02:00 PM - 03:15 PM	UH0238	Bruce Eshelman	
#2005	Section 02	[units: 3]				
	09/06-12/22	MWF	08:00 AM - 08:50 AM	UH0142	Joshua Kapfer	
#2009	Section 03	[units: 3]				
	09/06-12/22	MWF	11:00 AM - 11:50 AM	UH0142	Elisabeth 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

#1989	Section 01	[units: 2]	NOTE: Required additional course fee is \$25.			
	09/06-10/27	WF	01:00 PM - 04:50 PM	UH0360	Joshua Kapfer	

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

#2074	Section 01D	[units: 4]				
	09/06-12/22	T	12:30 PM - 02:30 PM	UH0238	Robert Kuzoff	
	09/06-12/22	MWF	10:00 AM - 10:50 AM	UH0143	Robert Kuzoff	
#2075	Section 02D	[units: 4]				
	09/06-12/22	R	12:30 PM - 02:30 PM	UH0238	Robert Kuzoff	
	09/06-12/22	MWF	10:00 AM - 10:50 AM	UH0143	Robert 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 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)

#1954	Section 01L	[units: 4]				
	09/06-12/22	T	01:00 PM - 03:50 PM	UH0202	Heather Pelzel	
	09/06-12/22	MWF	10:00 AM - 10:50 AM	UH0238	Heather Pelzel	

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.

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

#1962	Section 01	[units: 4]				
	09/06-12/22	W	01:00 PM - 03:50 PM	UH0302	Ellen Davis	
	09/06-12/22	TR	09:30 AM - 10:45 AM	UH0302	Ellen Davis	

BIOLOGY 351 THE PLANT KINGDOM ... A study of the major groups of plants with emphasis on structure, reproduction, classification and evolution.

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

#2062	Section 01L	[units: 4]				
	09/06-12/22	R	02:00 PM - 04:50 PM	UH0360	Nicholas Tippery	
	09/06-12/22	TR	12:30 PM - 01:45 PM	UH0306	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

#2018	Section 01	[units: 4]				
	09/06-12/22	T	01:00 PM - 03:50 PM	UH0266	Ellen Davis	
	09/06-12/22	MW	09:30 AM - 10:45 AM	UH0302	Ellen Davis	
#2019	Section 02	[units: 4]				
	09/06-12/22	M	09:00 AM - 11:50 AM	UH0266	Peter Mesner	
	09/06-12/22	TR	12:30 PM - 01:45 PM	UH0142	Peter Mesner	

	<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>
#2069	Section 3L	[units: 4]				
	09/06-12/22	M	01:00 PM - 03:50 PM	UH0266	Peter Mesner	
	09/06-12/22	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

#1996	Section 01L	[units: 4]				
	09/06-12/22	R	09:00 AM - 11:50 AM	UH0266	Anneke Lisberg	
	09/06-12/22	MWF	02:00 PM - 02:50 PM	UH0142	Anneke Lisberg	
#2063	Section 02L	[units: 4]				
	09/06-12/22	R	01:00 PM - 03:50 PM	UH0266	Anneke Lisberg	
	09/06-12/22	MWF	02:00 PM - 02:50 PM	UH0142	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

#1964	Section 01	[units: 3]				
	09/06-12/22	MWF	01:00 PM - 01:50 PM	UH0238	Kirsten Crossgrove	

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.

PREREQ: BIOLOGY 141, BIOLOGY 142, BIOLOGY 257 AND CHEM 102 ALL WITH A GRADE OF C OR BETTER

#1966	Section 01	[units: 4]	NOTE: Required Additional course fee is \$25.00			
	09/06-12/22	M	02:00 PM - 04:50 PM	UH0360	Elisabeth Harrahy	
	09/06-12/22	MWF	10:00 AM - 10:50 AM	UH0360	Elisabeth Harrahy	
#2079	Section 02	[units: 4]	NOTE: Required Additional course fee is \$25.00			
	09/06-12/22	T	02:00 PM - 04:50 PM	UH0360	Brian O'Neill	
	09/06-12/22	MWF	01:00 PM - 01:50 PM	UH0142	Brian O'Neill	

BIOLOGY 375 INVERTEBRATE ZOOLOGY ... A comprehensive study of the morphology, physiology, ecology and significance of the major groups of invertebrate animals. Six hours of laboratory and lecture per week.

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

#2071	Section 01L	[units: 4]				
	09/06-12/22	T	02:00 PM - 04:50 PM	UH0302	Nadine Kriska	
	09/06-12/22	TR	12:30 PM - 01:45 PM	UH0302	Nadine Kriska	

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

#1955	Section 01	[units: 0.5]				
	09/06-12/22	F	12:00 PM - 12:50 PM	UH0145	Stephen Levas	
	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

#1956	Section 01	[units: 0.5]				
	09/06-12/22	F	12:00 PM - 12:50 PM	UH0145	Stephen Levas	
	S/NC Grading Basis Only					

BIOLOGY 416 ADVANCED AND MULTIVARIATE DATA ANALYSIS FOR THE LIFE SCIENCES ... An introduction to multifactorial and multivariate data analyses commonly used in life sciences such as psychology and biology. Analyses include analysis of variance and covariance, multiple analysis of variance and covariance, multiple regression, foundations of structural equation modeling (path analysis and latent factor analysis), discriminant analysis and logistic regression.

PREREQ: PSYCH 215 OR BIOLOGY 303 OR CONSENT OF INSTRUCTOR AND JUNIOR STANDING

#2082	Section 01	[units: 3]				
	09/06-12/22	MW	05:00 PM - 06:15 PM	UH0238	Margaret Waraczynski	

BIOLOGY 425 APPLICATIONS OF CELLULAR BIOLOGY ... This course helps students build on and integrate the knowledge they have gained in Introductory Biology and Introduction to Cell Biology through reading and analysis of primary scientific literature. The course is organized such that students work in small groups to analyze a series of research papers to explore how a scientific research plan changes in response to new data.

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

#4430	Section 01	[units: 3]				
	09/06-12/22	MW	11:00 AM - 12:15 PM	UH0238	Heather Pelzel	

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

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.

#1999 Section 01 [units: 4] NOTE: This is a hybrid course that meets both online and in the classroom.

09/06-12/22 MWF 09:00 AM - 09:50 AM UH0238 Anneke Lisberg

09/06-12/22 Arranged Arranged WEB BASED Anneke Lisberg

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

#1988 Section 01 [units: 4] NOTE: Required Additional course fee is \$25.00

09/06-12/22 R 09:30 AM - 12:15 PM UH0360 Stephen Solheim

09/06-12/22 TR 08:00 AM - 09:15 AM UH0360 Stephen 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. □

#1957 Section 01 [units: 1]

09/06-12/22 Arranged Arranged

Kerry Katovich

Dept. Consent

S/NC Grading Basis Only

BIOLOGY 493 INTERNSHIP IN BIOLOGY ... Variable topics.

#1958 Section 01 [units: 1-12]

09/06-12/22 Arranged Arranged

Bruce Eshelman

Dept. Consent

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

#1959 Section 01 [units: 1-3]

09/06-12/22 Arranged Arranged

Catherine Chan

Instructor Consent

S/NC Grading Basis Only

#2020 Section 02 [units: 1-3]

09/06-12/22 Arranged Arranged

George Clokey

Instructor Consent

S/NC Grading Basis Only

#2021 Section 03 [units: 1-3]

09/06-12/22 Arranged Arranged

Nathaly Cormier

Instructor Consent

S/NC Grading Basis Only

#2022 Section 04 [units: 1-3]

09/06-12/22 Arranged Arranged

Kirsten Crossgrove

Instructor Consent

S/NC Grading Basis Only

#2023 Section 05 [units: 1-3]

09/06-12/22 Arranged Arranged

Kristen Curran

Instructor Consent

S/NC Grading Basis Only

#2024 Section 06 [units: 1-3]

09/06-12/22 Arranged Arranged

Ellen Davis

Instructor Consent

S/NC Grading Basis Only

#2025 Section 07 [units: 1-3]

09/06-12/22 Arranged Arranged

Bruce Eshelman

Instructor Consent

S/NC Grading Basis Only

#2026 Section 08 [units: 1-3]

09/06-12/22 Arranged Arranged

Elisabeth Harrahy

Instructor Consent

S/NC Grading Basis Only

#2027 Section 09 [units: 1-3]

09/06-12/22 Arranged Arranged

Joshua Kapfer

Instructor Consent

S/NC Grading Basis Only

#2028 Section 10 [units: 1-3]

09/06-12/22 Arranged Arranged

Kerry Katovich

Instructor Consent

S/NC Grading Basis Only

#2029 Section 11 [units: 1-3]

09/06-12/22 Arranged Arranged

Nadine Kriska

Instructor Consent

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>
#2030	Section 12	[units: 1-3]		09/06-12/22	Arranged	Arranged		Robert Kuzoff		Instructor Consent
										S/NC Grading Basis Only
#2031	Section 13	[units: 1-3]		09/06-12/22	Arranged	Arranged		Stephen Levas		Instructor Consent
										S/NC Grading Basis Only
#2032	Section 14	[units: 1-3]		09/06-12/22	Arranged	Arranged		Anneke Lisberg		Instructor Consent
										S/NC Grading Basis Only
#2033	Section 15	[units: 1-3]		09/06-12/22	Arranged	Arranged		Peter Mesner		Instructor Consent
										S/NC Grading Basis Only
#2034	Section 16	[units: 1-3]		09/06-12/22	Arranged	Arranged		Brian O'Neill		Instructor Consent
										S/NC Grading Basis Only
#2035	Section 17	[units: 1-3]		09/06-12/22	Arranged	Arranged		Heather Pelzel		Instructor Consent
										S/NC Grading Basis Only
#2036	Section 18	[units: 1-3]		09/06-12/22	Arranged	Arranged		Andrea Romero		Instructor Consent
										S/NC Grading Basis Only
#2055	Section 19	[units: 1-3]		09/06-12/22	Arranged	Arranged		Stephen Solheim		Instructor Consent
										S/NC Grading Basis Only
#2067	Section 20	[units: 1-3]		09/06-12/22	Arranged	Arranged		Nicholas Tippery		Instructor Consent
										S/NC Grading Basis Only
#2076	Section 21	[units: 1-3]		09/06-12/22	Arranged	Arranged		Daryle Waechter-Brulla		Instructor Consent
										S/NC Grading Basis Only
#2086	Section 22	[units: 1-3]		09/06-12/22	Arranged	Arranged		Kerry Katovich		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.

#2001	Section 01	[units: 1-3]		09/06-12/22	Arranged	Arranged		George Clokey		Dept. Consent
#2037	Section 02	[units: 1-3]		09/06-12/22	Arranged	Arranged		Nathaly Cormier		Dept. Consent
#2038	Section 03	[units: 1-3]		09/06-12/22	Arranged	Arranged		Kirsten Crossgrove		Dept. Consent
#2039	Section 04	[units: 1-3]		09/06-12/22	Arranged	Arranged		Kristen Curran		Dept. Consent
#2040	Section 05	[units: 1-3]		09/06-12/22	Arranged	Arranged		Ellen Davis		Dept. Consent
#2041	Section 06	[units: 1-3]		09/06-12/22	Arranged	Arranged		Bruce Eshelman		Dept. Consent
#2042	Section 07	[units: 1-3]		09/06-12/22	Arranged	Arranged		Elisabeth Harrahy		Dept. Consent
#2043	Section 08	[units: 1-3]		09/06-12/22	Arranged	Arranged		Joshua Kapfer		Dept. Consent
#2044	Section 09	[units: 1-3]		09/06-12/22	Arranged	Arranged		Kerry Katovich		Dept. Consent
#2045	Section 10	[units: 1-3]		09/06-12/22	Arranged	Arranged		Nadine Kriska		Dept. Consent
#2046	Section 11	[units: 1-3]		09/06-12/22	Arranged	Arranged		Robert Kuzoff		Dept. Consent
#2047	Section 12	[units: 1-3]		09/06-12/22	Arranged	Arranged		Stephen Levas		Dept. Consent
#2048	Section 13	[units: 1-3]		09/06-12/22	Arranged	Arranged		Anneke Lisberg		Dept. Consent

<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>
#2049	Section 14	[units: 1-3]		09/06-12/22	Arranged	Arranged		Peter Mesner		Dept. Consent
#2050	Section 15	[units: 1-3]		09/06-12/22	Arranged	Arranged		Brian O'Neill		Dept. Consent
#2051	Section 16	[units: 1-3]		09/06-12/22	Arranged	Arranged		Heather Pelzel		Dept. Consent
#2052	Section 17	[units: 1-3]		09/06-12/22	Arranged	Arranged		Andrea Romero		Dept. Consent
#2053	Section 18	[units: 1-3]		09/06-12/22	Arranged	Arranged		Stephen Solheim		Dept. Consent
#2054	Section 19	[units: 1-3]		09/06-12/22	Arranged	Arranged		Nicholas Tippery		Dept. Consent
#2056	Section 20	[units: 1-3]		09/06-12/22	Arranged	Arranged		Daryle Waechter-Brulla		Dept. Consent
#2057	Section 21	[units: 1-3]		09/06-12/22	Arranged	Arranged		Margaret Waraczynski		Dept. Consent
#2085	Section 22	[units: 1-3]		09/06-12/22	Arranged	Arranged		Kerry Katovich		Dept. Consent

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

#1963	Section 01	[units: 2-3]		09/06-12/22	Arranged	Arranged		Kerry Katovich		
#2066	Section 02	[units: 2-3]		09/06-12/22	Arranged	Arranged		Margaret Waraczynski		