

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

#2423	Section 01	[units: 4]	Gen Ed Laboratory (GL)				
	09/07-12/23	M	01:00 PM - 02:50 PM	UH0364	Linda C Eshelman		
	09/07-12/23	MWF	10:00 AM - 10:50 AM	UH0145	Daryle A Waechter-Brulla		
#2424	Section 02	[units: 4]	Gen Ed Laboratory (GL)				
	09/07-12/23	T	09:00 AM - 10:50 AM	UH0364	Bruce David Eshelman		
	09/07-12/23	MWF	10:00 AM - 10:50 AM	UH0145	Daryle A Waechter-Brulla		
#2456	Section 05	[units: 4]	Gen Ed Laboratory (GL)				
	09/07-12/23	W	09:00 AM - 10:50 AM	UH0364	Stephen L Solheim		
	09/07-12/23	MW	02:00 PM - 03:15 PM	UH0145	George V Clokey		
#2457	Section 06	[units: 4]	Gen Ed Laboratory (GL)				
	09/07-12/23	T	01:00 PM - 02:50 PM	UH0364	Ellen S Davis		
	09/07-12/23	MW	02:00 PM - 03:15 PM	UH0145	George V Clokey		
#2458	Section 07P	[units: 4]	Gen Ed Laboratory (GL)				
	09/07-12/23	T	11:00 AM - 12:50 PM	UH0364	Daryle A Waechter-Brulla	PATHWAYS	
	09/07-12/23	MW	02:00 PM - 03:15 PM	UH0145	George V Clokey		
#2460	Section 08	[units: 4]	Gen Ed Laboratory (GL)				
	09/07-12/23	W	11:00 AM - 12:50 PM	UH0364	Bruce David Eshelman		
	09/07-12/23	MW	02:00 PM - 03:15 PM	UH0145	George V Clokey		
#2461	Section 09	[units: 4]	Gen Ed Laboratory (GL)				
	09/07-12/23	F	09:00 AM - 10:50 AM	UH0364	George V Clokey		
	09/07-12/23	MWF	08:00 AM - 08:50 AM	UH0145	George V Clokey		
#2462	Section 10	[units: 4]	Gen Ed Laboratory (GL)				
	09/07-12/23	M	03:00 PM - 04:50 PM	UH0364	Kris Curran		
	09/07-12/23	MWF	08:00 AM - 08:50 AM	UH0145	George V Clokey		
#2480	Section 11	[units: 4]	Gen Ed Laboratory (GL)				
	09/07-12/23	T	03:00 PM - 04:50 PM	UH0364	Daryle A Waechter-Brulla		
	09/07-12/23	MWF	08:00 AM - 08:50 AM	UH0145	George V Clokey		
#2463	Section 12	[units: 4]	Gen Ed Laboratory (GL)				
	09/07-12/23	R	01:00 PM - 02:50 PM	UH0364	Stephen L Solheim		
	09/07-12/23	MWF	08:00 AM - 08:50 AM	UH0145	George V Clokey		
#2469	Section 17	[units: 4]	Gen Ed Laboratory (GL)				
	09/07-12/23	M	01:00 PM - 02:50 PM	UH0356	Nicholas P Tippery		
	09/07-12/23	MWF	11:00 AM - 11:50 AM	UH0145	Brian J O'Neill		
#2488	Section 18	[units: 4]	Gen Ed Laboratory (GL)				
	09/07-12/23	T	09:00 AM - 10:50 AM	UH0356	Kris Curran		
	09/07-12/23	MWF	11:00 AM - 11:50 AM	UH0145	Brian J O'Neill		
#2546	Section 19	[units: 4]	Gen Ed Laboratory (GL)				
	09/07-12/23	T	01:00 PM - 02:50 PM	UH0356	Elisabeth A Harrahy		
	09/07-12/23	MWF	11:00 AM - 11:50 AM	UH0145	Brian J O'Neill		
#2547	Section 20	[units: 4]	Gen Ed Laboratory (GL)				
	09/07-12/23	W	01:00 PM - 02:50 PM	UH0356	Elisabeth A Harrahy		
	09/07-12/23	MWF	11:00 AM - 11:50 AM	UH0145	Brian J O'Neill		
#2548	Section 21	[units: 4]	Gen Ed Laboratory (GL)	NOTE: This is a hybrid course and will meet both online and in the classroom.			
	09/07-12/23	R	03:00 PM - 04:50 PM	UH0356	Michael J Woller		
	09/07-12/23	TR	05:00 PM - 06:15 PM	UH0145	Michael J Woller		
	09/07-12/23	Arranged	Arranged	WEB BASED	Michael J Woller		
#2549	Section 22	[units: 4]	Gen Ed Laboratory (GL)	NOTE: This is a hybrid course and will meet both online and in the classroom.			
	09/07-12/23	W	11:00 AM - 12:50 PM	UH0356	George V Clokey		
	09/07-12/23	TR	05:00 PM - 06:15 PM	UH0145	Michael J Woller		
	09/07-12/23	Arranged	Arranged	WEB BASED	Michael J Woller		
#2553	Section 23	[units: 4]	Gen Ed Laboratory (GL)	NOTE: This is a hybrid course and will meet both online and in the classroom.			
	09/07-12/23	R	11:00 AM - 12:50 PM	UH0356	Ellen S Davis		
	09/07-12/23	TR	05:00 PM - 06:15 PM	UH0145	Michael J Woller		
	09/07-12/23	Arranged	Arranged	WEB BASED	Michael J Woller		

<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>
#2566 Section 24	[units: 4]	Gen Ed Laboratory (GL)	NOTE: This is a hybrid course and will meet both online and in the classroom.		
09/07-12/23	T	03:00 PM - 04:50 PM	UH0356	Michael J Woller	
09/07-12/23	TR	05:00 PM - 06:15 PM	UH0145	Michael J Woller	
09/07-12/23	Arranged	Arranged	WEB BASED	Michael J Woller	

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.

#2573 Section 01	[units: 5]	Gen Ed Laboratory (GL)	PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR		
09/07-12/23	W	02:00 PM - 03:00 PM	UH0312	Daryle A Waechter-Brulla	
09/07-12/23	W	03:00 PM - 04:50 PM	UH0312	Daryle A Waechter-Brulla	
09/07-12/23	MWF	09:00 AM - 09:50 AM	UH0140	Daryle A Waechter-Brulla	
#4775 Section 02	[units: 5]	Gen Ed Laboratory (GL)	PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR		
09/07-12/23	T	09:00 AM - 10:00 AM	UH0312	Brian J O'Neill	
09/07-12/23	T	10:00 AM - 11:50 AM	UH0312	Brian J O'Neill	
09/07-12/23	MWF	09:00 AM - 09:50 AM	UH0140	Daryle A Waechter-Brulla	
#2428 Section 02X	[units: 5]	Gen Ed Laboratory (GL)	PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR		
09/07-12/23	T	09:00 AM - 10:00 AM	UH0312	Brian J O'Neill	
09/07-12/23	T	10:00 AM - 11:50 AM	UH0312	Brian J O'Neill	
09/07-12/23	MWF	09:00 AM - 09:50 AM	UH0140	Daryle A Waechter-Brulla	
#2430 Section 03	[units: 5]	Gen Ed Laboratory (GL)	PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR		
09/07-12/23	F	10:00 AM - 11:00 AM	UH0312	Stephen J Levas	
09/07-12/23	F	11:00 AM - 12:50 PM	UH0312	Stephen J Levas	
09/07-12/23	MWF	09:00 AM - 09:50 AM	UH0140	Daryle A Waechter-Brulla	
#2429 Section 03C	[units: 5]	Gen Ed Laboratory (GL)	PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR		
09/07-12/23	TR	09:30 AM - 10:45 AM		To Be Arranged	
#2431 Section 04	[units: 5]	Gen Ed Laboratory (GL)	PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR		
09/07-12/23	M	09:00 AM - 10:00 AM	UH0312	Kris Curran	
09/07-12/23	M	10:00 AM - 11:50 AM	UH0312	Kris Curran	
09/07-12/23	MW	02:00 PM - 03:15 PM	UH0140	Robert K Kuzoff	
#2448 Section 05	[units: 5]	Gen Ed Laboratory (GL)	PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR		
09/07-12/23	R	09:00 AM - 10:00 AM	UH0312	Linda C Eshelman	
09/07-12/23	R	10:00 AM - 11:50 AM	UH0312	Linda C Eshelman	
09/07-12/23	MW	03:30 PM - 04:45 PM	UH0142	Nadine L Kriska	
#2472 Section 06	[units: 5]	Gen Ed Laboratory (GL)	PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR		
09/07-12/23	R	02:00 PM - 03:00 PM	UH0312	Linda C Eshelman	
09/07-12/23	R	03:00 PM - 04:50 PM	UH0312	Linda C Eshelman	
09/07-12/23	MW	03:30 PM - 04:45 PM	UH0142	Nadine L Kriska	
#2499 Section 07	[units: 5]	Gen Ed Laboratory (GL)	PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR		
09/07-12/23	W	09:00 AM - 10:00 AM	UH0312	Andrea Romero	
09/07-12/23	W	10:00 AM - 11:50 AM	UH0312	Andrea Romero	
09/07-12/23	MW	02:00 PM - 03:15 PM	UH0140	Robert K Kuzoff	
#2500 Section 08	[units: 5]	Gen Ed Laboratory (GL)	PREREQ: RESTRICTED TO BIOLOGY MAJOR, MINOR, CHEM MAJOR, INTEGRATED SCIENCE-BUSINESS MAJOR, OR ENVIRONMENTAL SCIENCE MAJOR		
09/07-12/23	T	02:00 PM - 03:00 PM	UH0312	Nathaly Cormier	
09/07-12/23	T	03:00 PM - 04:50 PM	UH0312	Nathaly Cormier	
09/07-12/23	MW	02:00 PM - 03:15 PM	UH0140	Robert K Kuzoff	

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

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

#2433	Section 01	[units: 5]	Gen Ed Laboratory (GL)			
09/07-12/23	W		09:00 AM - 10:00 AM	UH0306	Linda C Eshelman	
09/07-12/23	W		10:00 AM - 11:50 AM	UH0306	Linda C Eshelman	
09/07-12/23	TR		09:30 AM - 10:45 AM	UH0140	Joshua M Kapfer	
#2470	Section 02	[units: 5]	Gen Ed Laboratory (GL)			
09/07-12/23	F		09:00 AM - 10:00 AM	UH0306	Joshua M Kapfer	
09/07-12/23	F		10:00 AM - 11:50 AM	UH0306	Joshua M Kapfer	
09/07-12/23	TR		09:30 AM - 10:45 AM	UH0140	Joshua M Kapfer	
#2471	Section 03	[units: 5]	Gen Ed Laboratory (GL)			
09/07-12/23	T		02:00 PM - 03:00 PM	UH0306	Linda C Eshelman	
09/07-12/23	T		03:00 PM - 04:50 PM	UH0306	Linda C Eshelman	
09/07-12/23	TR		09:30 AM - 10:45 AM	UH0140	Joshua M Kapfer	
#2502	Section 04	[units: 5]	Gen Ed Laboratory (GL)			
09/07-12/23	W		02:00 PM - 03:00 PM	UH0306	Andrea Romero	
09/07-12/23	W		03:00 PM - 04:50 PM	UH0306	Andrea Romero	
09/07-12/23	TR		03:30 PM - 04:45 PM	UH0142	Kerry R Katovich	
#2495	Section 05	[units: 5]	Gen Ed Laboratory (GL)			
09/07-12/23	M		02:00 PM - 03:00 PM	UH0306	Kerry R Katovich	
09/07-12/23	M		03:00 PM - 04:50 PM	UH0306	Kerry R Katovich	
09/07-12/23	TR		03:30 PM - 04:45 PM	UH0142	Kerry R Katovich	
#2560	Section 06	[units: 5]	Gen Ed Laboratory (GL)			
09/07-12/23	T		09:00 AM - 10:00 AM	UH0306	Stephen J Levas	
09/07-12/23	T		10:00 AM - 11:50 AM	UH0306	Stephen J Levas	
09/07-12/23	TR		03:30 PM - 04:45 PM	UH0142	Kerry R 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

#2434	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.			
09/07-12/23	Arranged	Arranged	WEB BASED	Kris Curran		
#2569	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.			
09/07-12/23	Arranged	Arranged	WEB BASED	Nadine L 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.

#2435	Section 01	[units: 3]	Gen Ed Math/Natural Sciences (GM)	NOTE: Restricted to BSE majors only.		
			PREREQ: RESTRICTED TO STUDENTS WITH BSE CURRICULUM			
09/07-12/23	TR		08:00 AM - 09:15 AM	UH0140	George V Clokey	
#2490	Section 03	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
09/07-12/23	MWF		01:00 PM - 01:50 PM	UH0142	Stephen L Solheim	
#2503	Section 04	[units: 3]	Gen Ed Math/Natural Sciences (GM)			
09/07-12/23	TR		03:30 PM - 04:45 PM	UH0140	George V 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

#2438	Section 02	[units: 4]				
09/07-12/23	T		02:00 PM - 04:50 PM	UH0206	Kirsten Crossgrove	
09/07-12/23	MWF		10:00 AM - 10:50 AM	UH0140	Kirsten Crossgrove	
#2482	Section 03	[units: 4]				
09/07-12/23	W		09:00 AM - 11:50 AM	UH0206	Nadine L Kriska	
09/07-12/23	TR		09:30 AM - 10:45 AM	HH1306	Nicholas P Tippery	
#2492	Section 04	[units: 4]				
09/07-12/23	W		02:00 PM - 04:50 PM	UH0206	Nicholas P Tippery	
09/07-12/23	TR		09:30 AM - 10:45 AM	HH1306	Nicholas P Tippery	

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

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

#2439	Section 01	[units: 3]					
	09/07-12/23	MWF	09:00 AM - 09:50 AM	UH0142	Heather R Pelzel		
#2478	Section 02	[units: 3]					
	09/07-12/23	TR	08:00 AM - 09:15 AM	UH0142	Peter W Mesner		
#2498	Section 03	[units: 3]					
	09/07-12/23	TR	02:00 PM - 03:15 PM	UH0142	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

#2440	Section 01	[units: 2]					
	09/07-12/23	M	01:00 PM - 03:50 PM	UH0206	Nathaly Cormier		
#2474	Section 02	[units: 2]					
	09/07-12/23	R	09:00 AM - 11:50 AM	UH0206	Nathaly Cormier		
#2496	Section 03	[units: 2]					
	09/07-12/23	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

#2441	Section 01	[units: 3]					
	09/07-12/23	MWF	10:00 AM - 10:50 AM	UH0143	Bruce David Eshelman		
#2493	Section 02	[units: 3]					
	09/07-12/23	MWF	08:00 AM - 08:50 AM	UH0142	Joshua M Kapfer		
#2497	Section 03	[units: 3]					
	09/07-12/23	MWF	11:00 AM - 11:50 AM	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

#2477	Section 01	[units: 2]	NOTE: Required additional course fee is \$25.				
	09/07-10/28	WF	01:00 PM - 04:50 PM	UH0360	Joshua M Kapfer		
#3967	Section 02	[units: 2]	NOTE: Required additional course fee is \$25.				
	09/07-10/28	WF	01:00 PM - 04:50 PM	ARRANGED	Kerry R Katovich		

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

#2562	Section 01D	[units: 4]					
	09/07-12/23	T	12:30 PM - 02:30 PM	UH0238	Robert K Kuzoff		
	09/07-12/23	MWF	10:00 AM - 10:50 AM	UH0142	Robert K Kuzoff		
#2563	Section 02D	[units: 4]					
	09/07-12/23	R	12:30 PM - 02:30 PM	UH0238	Robert K Kuzoff		
	09/07-12/23	MWF	10:00 AM - 10:50 AM	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 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)

#2442	Section 01L	[units: 4]					
	09/07-12/23	R	02:00 PM - 04:50 PM	UH0202	Heather R Pelzel		
	09/07-12/23	MWF	10:00 AM - 10:50 AM	UH0238	Heather R Pelzel		

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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

#2450 Section 01 [units: 4]

09/07-12/23 W 01:00 PM - 03:50 PM UH0302 Ellen S Davis

09/07-12/23 TR 09:30 AM - 10:45 AM UH0302 Ellen S 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

#2550 Section 01L [units: 4]

09/07-12/23 R 02:00 PM - 04:50 PM UH0360 Nicholas P Tippery

09/07-12/23 TR 12:30 PM - 01:45 PM UH0360 Nicholas P 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

#2506 Section 01 [units: 4]

09/07-12/23 W 01:00 PM - 03:50 PM UH0266 Michael J Waller

09/07-12/23 MW 09:30 AM - 10:45 AM UH0302 Ellen S Davis

#2507 Section 02 [units: 4]

09/07-12/23 M 09:00 AM - 11:50 AM UH0266 Peter W Mesner

09/07-12/23 TR 12:30 PM - 01:45 PM UH0142 Peter W Mesner

#2557 Section 3L [units: 4]

09/07-12/23 M 01:00 PM - 03:50 PM UH0266 Peter W Mesner

09/07-12/23 TR 12:30 PM - 01:45 PM UH0142 Peter W 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

#2484 Section 01L [units: 4]

09/07-12/23 T 09:00 AM - 11:50 AM UH0266 Anneke Els Lisberg

09/07-12/23 MWF 02:00 PM - 02:50 PM UH0142 Anneke Els Lisberg

#2551 Section 02L [units: 4]

09/07-12/23 T 01:00 PM - 03:50 PM UH0266 Anneke Els Lisberg

09/07-12/23 MWF 02:00 PM - 02:50 PM UH0142 Anneke Els 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

#2452 Section 01 [units: 3]

09/07-12/23 MWF 01:00 PM - 01:50 PM WH1002B Kirsten Crossgrove

BIOLOGY 364 BIOTECHNOLOGY LABORATORY METHODS II ... *Advanced theory, techniques, and practices employed in modern molecular/cell biology labs. Concepts/techniques covered will include advanced lab and instrumentation skills, advanced microscopy, eukaryotic cell culture, protein analytical methods, and application of bioinformatics methodology. Three hours of laboratory per week.*

PREREQ: BIOLOGY 251, BIOLOGY 253, AND BIOLOGY 254 WITH A GRADE OF C OR BETTER. COREQ: BIOLOGY 363 AND CHEM 251

#4228 Section 01 [units: 2]

09/07-12/23 W 02:00 PM - 04:50 PM UH0262 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

#2454 Section 01 [units: 4] NOTE: Required Additional course fee is \$25.00

09/07-12/23 M 02:00 PM - 04:50 PM UH0360 Elisabeth A Harray

09/07-12/23 MWF 10:00 AM - 10:50 AM UH0360 Elisabeth A Harray

#2567 Section 02 [units: 4] NOTE: Required Additional course fee is \$25.00

09/07-12/23 T 02:00 PM - 04:50 PM UH0360 Brian J O'Neill

09/07-12/23 MWF 01:00 PM - 01:50 PM UH0140 Brian J O'Neill

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

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

#2559 Section 01L [units: 4]

09/07-12/23 T 02:00 PM - 04:50 PM UH0302 Nadine L Kriska
09/07-12/23 TR 12:30 PM - 01:45 PM UH0302 Nadine L 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

#2443 Section 01 [units: 0.5]

09/07-12/23 F 12:00 PM - 12:50 PM UH0145 Nathaly Cormier
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

#2444 Section 01 [units: 0.5]

09/07-12/23 F 12:00 PM - 12:50 PM UH0145 Nathaly Cormier
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

#2570 Section 01 [units: 3]

09/07-12/23 MW 05:00 PM - 06:15 PM UH0238 Meg A Waraczynski

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.

#2487 Section 01 [units: 4] NOTE: This is a hybrid course that meets both online and in the classroom.

09/07-12/23 MWF 09:00 AM - 09:50 AM WH1014 Anneke Els Lisberg
09/07-12/23 Arranged Arranged WEB BASED Anneke Els 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

#2476 Section 01 [units: 4] NOTE: Required Additional course fee is \$25.00

09/07-12/23 R 09:30 AM - 12:15 PM UH0360 Stephen L Solheim
09/07-12/23 TR 08:00 AM - 09:15 AM 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. □

#2445 Section 01 [units: 1]

09/07-12/23 Arranged Arranged Kerry R Katovich
S/NC Grading Basis Only

BIOLOGY 493 INTERNSHIP IN BIOLOGY ... Variable topics.

#2446 Section 01 [units: 1-12]

09/07-12/23 Arranged Arranged ARRANGED Bruce David Eshelman
S/NC Grading Basis Only

Dept. Consent

BIOLOGY 496 SPECIAL STUDIES ... Variable topics. Group activity. Not offered regularly in the curriculum but offered on topics selected on the basis of timeliness, need, and interest, and generally in the format of regularly scheduled Catalog offerings. Repeatable for a maximum of 3 credits in major.

#4619 Section 01 [units: 3]

PREREQ: BIOLOGY 253
09/07-12/23 MW 11:00 AM - 12:15 PM UH0238 Heather R Pelzel

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

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

#2447	Section 01	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Nathaly Cormier		
	S/NC Grading Basis Only						
#2508	Section 02	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Catherine W Chan		
	S/NC Grading Basis Only						
#2509	Section 03	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		George V Clokey		
	S/NC Grading Basis Only						
#2510	Section 04	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Kirsten Crossgrove		
	S/NC Grading Basis Only						
#2511	Section 05	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Kris Curran		
	S/NC Grading Basis Only						
#2512	Section 06	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Ellen S Davis		
	S/NC Grading Basis Only						
#2513	Section 07	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Bruce David Eshelman		
	S/NC Grading Basis Only						
#2514	Section 08	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Elisabeth A Harrahy		
	S/NC Grading Basis Only						
#2515	Section 09	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Joshua M Kapfer		
	S/NC Grading Basis Only						
#2516	Section 10	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Kerry R Katovich		
	S/NC Grading Basis Only						
#2517	Section 11	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Robert K Kuzoff		
	S/NC Grading Basis Only						
#2518	Section 12	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Anneke Els Lisberg		
	S/NC Grading Basis Only						
#2519	Section 13	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Peter W Mesner		
	S/NC Grading Basis Only						
#2520	Section 14	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Stephen L Solheim		
	S/NC Grading Basis Only						
#2521	Section 15	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Nicholas P Tippery		
	S/NC Grading Basis Only						
#2522	Section 16	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Daryle A Waechter-Brulla		
	S/NC Grading Basis Only						
#2523	Section 17	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Michael J Woller		
	S/NC Grading Basis Only						
#2524	Section 18	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Brian J O'Neill		
	S/NC Grading Basis Only						
#2543	Section 19	[units: 1-3]					Instructor Consent
	09/07-12/23	Arranged	Arranged		Heather R Pelzel		
	S/NC Grading Basis Only						

<u>Class#</u>	<u>Section</u>	<u>(Units)</u>	<u>General Education Designation (if any)</u>				<u>Consent</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>	
#2555	Section 20	[units: 1-3]					Instructor Consent
09/07-12/23	Arranged	Arranged			Nadine L Kriska		
	S/NC Grading Basis Only						
#2564	Section 21	[units: 1-3]					Instructor Consent
09/07-12/23	Arranged	Arranged			Kerry R Katovich		
	S/NC Grading Basis Only						
#2575	Section 22	[units: 1-3]					Instructor Consent
09/07-12/23	Arranged	Arranged			Andrea Romero		
	S/NC Grading Basis Only						

BIOLOGY 498R INDEPENDENT STUDY - UNDERGRADUATE RESEARCH ... Students will complete and present an undergraduate research project under the director 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.

#2489	Section 01	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Nathaly Cormier		
#2525	Section 02	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Catherine W Chan		
#2526	Section 03	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			George V Clokey		
#2527	Section 04	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Kirsten Crossgrove		
#2528	Section 05	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Kris Curran		
#2529	Section 06	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Ellen S Davis		
#2530	Section 07	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Bruce David Eshelman		
#2531	Section 08	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Elisabeth A Harrahy		
#2532	Section 09	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Joshua M Kapfer		
#2533	Section 10	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Kerry R Katovich		
#2534	Section 11	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Robert K Kuzoff		
#2535	Section 12	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Anneke Els Lisberg		
#2536	Section 13	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Peter W Mesner		
#2537	Section 14	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Stephen L Solheim		
#2538	Section 15	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Nicholas P Tippery		
#2539	Section 16	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Daryle A Waechter-Brulla		
#2540	Section 17	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Michael J Woller		
#2541	Section 18	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Brett C Woods		
#2542	Section 19	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Meg A Waraczynski		
#2544	Section 20	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Heather R Pelzel		
#2545	Section 21	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Nadine L Kriska		
#2574	Section 22	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Brian J O'Neill		
#2576	Section 23	[units: 1-3]					Dept. Consent
09/07-12/23	Arranged	Arranged			Andrea Romero		

<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>
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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

#2451 Section 01 [units: 2-3]

09/07-12/23 Arranged Arranged

Kerry R Katovich

#2554 Section 02 [units: 2-3]

09/07-12/23 Arranged Arranged

Meg A Waraczynski