

Key X = Present A = Artifact is collected anytime A17 = Artifact is collected in 2017-18	Bio 110	Bio 111	Bio 112	Bio 141	Bio 207	Bio 208	Bio 222	Bio 224	Bio 225	Bio 230	Bio 231	Bio 243	Bio 244	Bio 271	Bio 288	Bio 299	Bio 317	Bio 319	Bio 320	Bio 321	Bio 324	Bio 330	Bio 343	Bio 344	Bio 345	Bio 351	Bio 36_	Bio 371	Bio 377	Bio 380
	Principles of Biology	General Biology	General Biology II	General Botany	Genetics: Applies & Issues	General Genetics	Entomology	#N/A	Vertebrate Anatomy & Morphology	Introduction Forensic Science	Intro to Forensic Science Lab	Elem of Human Anat & Physiol	Nutrition	Introductory Embryology	Animal Behavior	#N/A	Ecology and Field Biology	Cell and Molecular Biology	#N/A	Pharmacology	#N/A	Advanced Forensic Science	Human Anatomy & Physiology I	Human Anatomy & Physiology II	Midwest Floral Identification	General Microbiology	#N/A	Biology of the Brain	Conservation Biology	Biology Service Learning

**Goals**

Knowledge: to gain a basic level of knowledge in the areas of biology, chemistry, computer science, and physics (as well as necessary math concepts), and an advanced level of knowledge in the student's major area(s) of study.	A	A	A	A	A	A	A	X	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Analysis: to recognize, understand, critically evaluate, and synthesize the components of a topic using logic and the scientific method.	A	A	A	A		A15		A	A	A	A			A17	A		A			A16		A			A	A15			A	
Research: to perform experiments, analyze the data, and discover new knowledge (typically in the form of relationships, hypotheses, and theories).	A	A	A			A					A				X	A		X	X		A									
Communication: to demonstrate effective communication skills for the presentation of scientific research						A					A				X	A				A	X	A				A		X		
Preparation: to excel in knowledge, analysis, research, and communication such that the student is able to advance to graduate or professional school programs, or secure a position in education or as a practitioner in an applied or theoretical field appropriate to the student's vocational goals.									X		X						X	X	X	X		X	X	X	X	X				

**Learning Outcomes**

Demonstrate an understanding of the content of the discipline.	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Produce appropriate inferences and interpretations from scientific data.	A	A	A	A	A	A15	A			A	A			A17	A	A	A			A		A			A	A15				
Demonstrate skill in using scientific techniques to produce results.	A	A	A	A	A	A	A			A	A						A			A		A			A	A				
Communicate concepts, processes and results in scientifically appropriate ways.					A	A				A	A						A			A	A	A			A	A				

**Gen Ed Goals & Requirements**

Faith	A	A	A		A	A		X	A	A		A													A					
Appreciation	A	A	A		A	A	X		X	X	X	A	A		A		A	A		X			X	X	X			A	X	
Knowledge	A	A	A	A	A15	A	A	A	A	A		A	A	A	A		A	A		A		A	A	A	A	A		A	A	A
Analysis	A	A	A	A	A	A	A			A			A													A				
Application	A	A	A	A	A	A				A		A	A													A		A		
Communication	A17									A				A16																
Responsibility	X	X	X		X	X				X			X				X			X					X					
SRQ: Writing Intensive																														
SRQ: Global/Multicultural																											X			
SRQ: Service-Learning																													X	X
Capstone Experience																														
Oral Communication																														

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	Physiology of Exercise	Research in Biology	#N/A	Gross Anatomy	Human Diseases	Immunology	Biology Internship	Honors Course	Introductory Chemistry	General Chemistry	Inorganic & Qualitative Analy	Organic Chemistry I	Advanced Inorganic Chemistry	Quantitative Analytical Chem	Organic Chemistry II	Introductory Biochemistry	Physical Chemistry	Physical Chemistry II	Physical Chemistry Lab I	Physical Chemistry Lab II	Adv Topics in Chemistry Sem.	Chem/BioChemistry Internship	Introductory Physics	Principles of Physics	General Physics I	General Physics II	Gen Physics I Calc Topics	Gen Physics II Calc Topics	Statics	Introductory Mechanics

**Goals**

Knowledge: to gain a basic level of knowledge in the areas of biology, chemistry, computer science, and physics (as well as necessary math concepts), and an advanced level of knowledge in the student's major area(s) of study.	A	A	A	A	A	A		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Analysis: to recognize, understand, critically evaluate, and synthesize the components of a topic using logic and the scientific method.		A		A						A	A	A15		A16	A15	A	A	A	A	A			A	A	A	A	A	A	A	A	A
Research: to perform experiments, analyze the data, and discover new knowledge (typically in the form of relationships, hypotheses, and theories).		A								A	A	A		A	A	A		A	A	X		A	A	A	A	A					
Communication: to demonstrate effective communication skills for the presentation of scientific research		A													A			X		A											
Preparation: to excel in knowledge, analysis, research, and communication such that the student is able to advance to graduate or professional school programs, or secure a position in education or as a practitioner in an applied or theoretical field appropriate to the student's vocational goals.		A		X		X	A															A							X	X	

**Learning Outcomes**

Demonstrate an understanding of the content of the discipline.	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	A
Produce appropriate inferences and interpretations from scientific data.		A		A						A	A	A15		A	A15	A17	A	A	A	A	A		A	A	A	A	A	A	A	A	A
Demonstrate skill in using scientific techniques to produce results.		A								A	A	A		A	A								A	A	A	A					
Communicate concepts, processes and results in scientifically appropriate ways.		A					A															A									

**Gen Ed Goals & Requirements**

Faith									X																							
Appreciation				X	X	X			A	X												X	X	X	X							
Knowledge	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	A	
Analysis		A							A														A	A	A	A	A	A	A	A	A	
Application		A							A														A	A	A	A	A	A	A	A	A	
Communication		A																														
Responsibility		X																														
SRQ: Writing Intensive		A																X														
SRQ: Global/Multicultural																																
SRQ: Service-Learning								A																								
Capstone Experience		A						A									A	A		A												
Oral Communication		A															A			A												

<b>Key</b> X = Present A = Artifact is collected anytime A17 = Artifact is collected in 2017-18	Phys 331	Phys 351	Phys 353	Phys 354	Phys 371	Phys 381	Phys 382	Phys 383	Phys 395	Phys 399	Phys 498	Sci 202	Sci 230	Sci 231	Sci 281	Sci 315	Sci 331	Sci 351	Sci 365	Sci 381
	Descriptive Astronomy	Classroom Activities Phys Sci	Thermodynamics	Quantum Mechanics	Electronics	Modern Physics	Advanced Physics Lab	Intro Nuclear & Particle Phys	Adv Topics in Physics Seminar	Physics Research	Physics Internship	Science of Everyday Things	Forensics Science	Intro to Forensic Science Lab	Physical Geog & Geology	Environmental Science	Descriptive Astronomy	Classroom Activities Phys Sci	Science and Society	Meteorology & Oceanography

**Goals**

Knowledge: to gain a basic level of knowledge in the areas of biology, chemistry, computer science, and physics (as well as necessary math concepts), and an advanced level of knowledge in the student's major area(s) of study.	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Analysis: to recognize, understand, critically evaluate, and synthesize the components of a topic using logic and the scientific method.	A	A	A	A	A	A	5 A16 A	A	A	A15	A	A	A	A	A	A	A	A	A	A
Research: to perform experiments, analyze the data, and discover new knowledge (typically in the form of relationships, hypotheses, and theories).	A				A		A			A	A			A						
Communication: to demonstrate effective communication skills for the presentation of scientific research	A						A			A	A			A						
Preparation: to excel in knowledge, analysis, research, and communication such that the student is able to advance to graduate or professional school programs, or secure a position in education or as a practitioner in an applied or theoretical field appropriate to the student's vocational goals.		X	X	X	X	X	X	X	X	A	A		X	X				X		

**Learning Outcomes**

Demonstrate an understanding of the content of the discipline.	A	A	A	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A
Produce appropriate inferences and interpretations from scientific data.	A	A	A	A	A	A	5 A16 A	A	A	A15	A	A	A	A			A	A	A	A
Demonstrate skill in using scientific techniques to produce results.					A	A	A			A	A			A						
Communicate concepts, processes and results in scientifically appropriate ways.						A	A			A	A			A						

**Gen Ed Goals & Requirements**

Faith												X	X				X		X	
Appreciation	X											X	X				X		X	X
Knowledge	A	A	A	A	A	A	A	A	A	A	A	A16	A	A	A	A	A	A	A	A
Analysis	A	A	A	A	A	A	A	A	A	A		X	A	A	A	A	A		X	A
Application	A	A								X		X	X				A		X	X
Communication		A								A		A16 A17	A				A16 A17		A16 A17	
Responsibility								X					X			X	X		X	
SRQ: Writing Intensive							A													
SRQ: Global/Multicultural																				
SRQ: Service-Learning					A															
Capstone Experience										A	A									
Oral Communication										A	A									