LIFE SCIENCES COURSES AT THE UNIVERISTY OF WYOMING: PROGRAM LEARNING GOALS & OUTCOMES

College: Arts & Sciences

Program:Life Sciences CurriculumDirector:Mark LyfordYear:2015-2016

	GOAL 1: Acquisition, Application and Synthesis of Knowledge						
	Students will be expected to						
	1	2	3	4	5	6	
COURSES OFFERED:	acquire fundamental concepts in the fields of cell and molecular biology	acquire fundamental concepts in the field of evolutionary biology	acquire fundamental concepts in the field of genetics	acquire fundamental concepts in the field of ecology	apply biological concepts to new situations	synthesize knowledge t test hypothes or conclusior	
LIFE 1010	Х	Х	x	х	х		
LIFE 2021	Х	Х	Х		Х	х	
LIFE 2022	Х	Х	Х	Х	Х	Х	
LIFE 2023	Х	Х	Х	Х	Х	Х	
LIFE 3050		Х	Х	Х	Х	Х	
LIFE 3400		Х		Х	Х	Х	
LIFE 3410				х			
LIFE 3500		Х	Х	х	Х	Х	
LIFE 3600	Х		Х		Х		

GOAL 3: Critical Thinking and Problem Solving Students will be expected to .. 1 2 3 4 5 6 make decisions assess the and judgments elements of a problem and recognize and by drawing differentiate recognize logical COURSES evaluate author develop conclusions develop and test between fact fallacies and OFFERED: bias and inferential skills using logical, a solution based and opinion faulty reasoning quantitative or on logic and the rhetoric statisticallybest possible based reasoning information LIFE 1010 Х Х Х Х LIFE 2021 Х Х Х LIFE 2022 Х LIFE 2023 Х LIFE 3050 Х Х Х Х Х LIFE 3400 Х х LIFE 3410 Х Х LIFE 3500 Х Х х Х LIFE 3600 Х х

	GOAL 4: Research Skills Students will be expected to							
	1	2	3	4	5	6	7	
COURSES OFFERED:	understand and appreciate that science and its methodology is a way of knowing	understand how the scientific method is applied to everyday problems	develop testable hypotheses to answer research questions	to design experiments to	apply appropriate quantitative methods to research data	understand the limitations of science	develop a working concep of research ethics	
LIFE 1010	Х		х	Х	х	Х	Х	
LIFE 2021	Х	Х	Х	Х	Х	Х	Х	
LIFE 2022	Х		Х	Х	Х			
LIFE 2023		Х	Х	Х	Х			
LIFE 3050								
LIFE 3400	Х							
LIFE 3410			Х		Х			
LIFE 3500	Х	Х	Х	Х				
LIFE 3600	Х	Х	Х	Х	Х	Х	Х	

*discipline-specific lab techniques emerged as a category during curriculum mapping for 2000-level courses

*morphology/structure a	& function emerged	l as a category	during curricu	ilum mapping fo	r 2000-level	courses

	GOAL 2: Communication Skills						
	Students will be expected to						
	1	2	3	4	5		
COURSES OFFERED:	read and identify key points in scientific writing	summarize key points from oral presentations	be competent in written communication	discuss and present scientific findings verbally	construct effective and appropriate visual displays of information		
LIFE 1010	Х		Х	Х	Х		
LIFE 2021	Х	Х	Х	Х	Х		
LIFE 2022			Х	Х	Х		
LIFE 2023	Х			Х			
LIFE 3050		Х		Х	Х		
LIFE 3400	Х	х					
LIFE 3410		Х	Х	Х	Х		
LIFE 3500	Х		Х				
LIFE 3600	Х	Х		Х	Х		