Course Title (Code)	LAI103 Introduction to Natural Life/Science		Instructor(s)	Jason Adachi Melody Muguerza		
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Class Style	Lect	ure	Office Hours	Monday/Wednesday: 15:00-17:00		
Track		General Education	Mode of Instruction	Team Teaching		
Credits	2		Allocated Year	First Year		
Active Learning	Interactive Spoken summaries Pair and group work Experimental work Field study work Presentations		Compulsory or Elective	Elective for TC track		
Course Overview	Exar	Introduces concepts, experimental techniques, and scientific methodologies for exploring a natural life system. Examines aspects of the theory of evolution, morphology and physiology of the organisms composing the natural life systems, i.e., Monera, Protista, Animalia, Plantae and Fungi.				
Course Objectives		 Content Objectives: Be familiar with the basic principles of evolutionary ecology (e.g. adaptation, natural selection, sexual selection, and biological interactions), Be familiar with similarity and diversity as the two faces of evolution, Be familiar with diversified organisms around us. Language Objectives: Know the vocabulary, and sentence structures necessary to discuss topics related to natural science, Know how academic science papers and reports are organized in English, Learn how to write a scientific report in English. 				
Prerequisite						
	No	Contents		Homework		
Course Schedule	1	What are the characteristics of living termine if a thing is alive? (Asking		Read the text and answer comprehension questions.		
	2	What is the scientific method? What is spontaneous generation?		Read the text and answer com-		
	3	What do we know about the first li these characteristics)? How might in	Read the text and answer comprehension questions. Field Assignment #1 Experiment #1			
	4	Why are there differences among laws karyotic and eukaryotic cells different multicellular organisms different?	Read fext and answer compre-			
	5	How are anaerobic/aerobic, heterotroph/autotroph and asex-ual/sexual different?		Read text and answer comprehension questions.		
	6	What are the advantages and di trasting features?	Read text and answer compre-			
	7	Why do organisms change over tire adaptation?	ne? What are evolution and	Prepare for the midterm review and exam		

	8	Midterm Review	Read text and answer and		
		Midterm Exam	comprehension questions.		
	9	How are features passed from parent to offspring?	Read text and answer compre-		
		What are the principles of basic genetics?	hension questions.		
		what are the principles of basic genetics:	Field assignment #2		
	10	What is Darwinian natural selection?	Read text and answer compre-		
			hension questions.		
	11	What is sexual selection?	Read text and answer compre-		
		What is sexual selection:	hension questions.		
	12	Phylogeny and more on adaptation	Read text and answer compre-		
		I hylogeny and more on adaptation	hension questions.		
		Predator-prey relationships	Reading text and answering		
	13		questions		
			Field assignment #3		
	14	Plant-animal interactions – pollination and seed dispersal	Read text and answer compre-		
			hension questions.		
	15	Conservation biology, ecological succession, and course review	Preparation of Final Exam		
	13	Conservation blology, ecological succession, and course review	Experiment #2 report due		
Grading	Grades will be determined as follows:				
	Homework 20%, Written reports 10%, Quizzes 20%, Exams 40%, Participation 10%.				
Textbooks	Course materials will be provided by instructors				
References					
	Missing the equivalent of 5 cleases will result in an extensetic failure. This is also let a missile.				
NOTES	Missing the equivalent of 5 classes will result in an automatic failure. This includes late arrivals and early departures from class. Note that absence or tardiness will generally not be accepted as a valid excuse for				
	incompletion or late submission of any task or assignment. Appropriate and timely communication by				
	students to the instructors is ex- pected.				
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