

2012 PaCES/HIMB Summer High School Program in Environmental Science

WEEK 1

	4-Jun Monday	5-Jun Tuesday	6-Jun Wednesday	7-Jun Thursday	8-Jun Friday
8:00	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION
8:30	Oli & Chant Course Orientation	Recap and Quiz	Recap and Quiz	Laboratory and Field Safety Lecture Taite	Recap and Quiz
9:00		Science and the Scientific Method Lecture Taite	Using EXCEL to Summarize and Present Data Lab Krupp	Travel to HIMB	Climate and Hydrology Lecture Taite
9:30		Introduction to EXCEL Lab Krupp			Watershed Mapping Lab Krupp
10:00	Introduction to the 'Ahupua'a Lecture Evensen	Making Measurements & Collecting Data Lecture Krupp		Welcome Brief History of Moku O Loe and HIMB; Lab and Island Tour (HIMB)	Review Use of Environmeters and Barometers
10:30		LUNCH	LUNCH		
11:00	Kāne'ohe Ahupua'a & Watershed Tour Field Trip With Environmeters and Barometers Staff			Using EXCEL for Data Entry and Table Generation Lab Krupp	Properties of Water Lab Hutchison
11:30		Data Summarization & Presentation Krupp	Properties of Water Lab Hutchison		
12:00	Review of Environmeter Data			Journal	Journal
12:30		Journal	Journal		
13:00	Journal	Journal	Journal	Journal	Journal
13:30					
14:00					
14:30					
15:00					
15:30					
16:00					
16:30					

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WEEK 2

	11-Jun Monday	12-Jun Tuesday	13-Jun Wednesday	14-Jun Thursday	15-Jun Friday
8:00	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION
8:30	Recap and Quiz	Recap and Quiz	Recap and Quiz	Recap and Quiz	Recap and Quiz
9:00	Introduction to Ecology & Population Growth Lecture Hutchison	Life in Hawaiian Streams Lecture Yee	Water Pollution and Water Quality Parameters Lecture Taite	Estuaries and Wetlands Lecture Hutchison	Native Hawaiian Terrestrial Ecosystems Lecture Yafuso
9:30					
10:00	Population Growth Lab Hutchison	Stream Bioassessment Survey	Stream Water Quality Survey	Estuary Dynamics Field Study	Ho'omaluhia Botanical Garden Field Trip Yafuso
10:30					
11:00					
11:30					
12:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH In Field
12:30					
13:00	Community Ecology Lecture Krupp	Stream Bioassessment Survey Data Workup Staff	Water Quality Parameters Measurement: Analysis of Water Collected Water Samples Lab	Estuary Data Workup Lab	Ulupo Service Project
13:30					
14:00	Lab Assignment Catch Up Staff				
14:30					
15:00					
15:30					
16:00	Journal	Journal	Journal	Journal	Journal
16:30	END	END	END	END	END

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WEEK 4

	25-Jun Monday	26-Jun Tuesday	27-Jun Wednesday	28-Jun Thursday	29-Jun Friday
8:00	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION
8:30	Recap and Quiz	Recap and Quiz	Recap and Quiz	Recap and Quiz	Recap and Quiz
9:00	Environmental Microbiology Lecture Hutchison	Principles of PCR Lecture Hutchison	Environmental History of Kāne'ohe Bay Lecture Krupp	Writing a Proposal and a Scientific Paper Lecture Krupp	Group Project Development
9:30				Searching the Literature Krupp	
10:00	Microbiology Lab Hutchison	PCR Reaction Set Up Lab	Research Project Brainstorming	Proposal Development	
10:30					
11:00					
11:30					
12:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
12:30					
13:00	DNA Extraction Lab Start	Process PCR Products Lab	Climate Change Lecture Taite	Proposal Development	BLAST Lab Staff
13:30	Molecular Genetics Lecture Taite				
14:00					
14:30	DNA Extraction Lab Continued Staff		Research Project Brainstorming		
15:00					
15:30					
16:00	Journal	Journal	Journal	Journal	Journal
16:30	END	END	END	END	END

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WEEK 5

	2-Jul Monday	3-Jul Tuesday	4-Jul Wednesday	5-Jul Thursday	6-Jul Friday	
8:00	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	HOLIDAY	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	
8:30	Project Update	Project Update		Project Update	Project Update	
9:00	Group Project Implementation	Group Project Implementation		HOLIDAY	Group Project Implementation	Group Project Implementation
9:30						
10:00						
10:30						
11:00						
11:30						
12:00	LUNCH	LUNCH		LUNCH	LUNCH	
12:30	Group Project Implementation	Group Project Implementation		HOLIDAY	Group Project Implementation	Group Project Implementation
13:00						
13:30						
14:00						
14:30						
15:00						
15:30	END	END		HOLIDAY	END	END
16:00						
16:30	END	END		END	END	

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WEEK 6

	9-Jul Monday	10-Jul Tuesday	11-Jul Wednesday	12-Jul Thursday	13-Jul Friday	14-Jul Saturday	
8:00	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	ARRIVE WCC ORIENTATION	Symposium Registration	
8:30	Project Update	Using PowerPoint	Project Update	Making an Oral Presentation Lecture	Data Analysis and Report Preparation	Welcome	
9:00	Group Project Implementation	Group Project Implementation	Data Analysis and Report Preparation	Data Analysis and Report Preparation		Group Project Report Due	Keynote Speaker Senator Clayton Hee
9:30							
10:00							
10:30							
11:00							
11:30							
12:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		END
12:30							
13:00	Group Project Implementation	Group Project Implementation	Data Analysis and Report Preparation	Data Analysis and Report Preparation	Program Evaluation	Group Project Oral Presentation Practice	
13:30							
14:00							
14:30							
15:00							
15:30							
16:00							
16:30					END		END