

Cost Analysis: New emporium redesign math course					Total startup cost:		Estimated annual savings range									
					\$128,220		37242 to 83699.778									
Personnel: Note that this project is funded under a work-for-hire arrangement.																
The University of Hawaii system will hold the copyright, broadcast right, and publication right to all materials called for in this agreement.								Years to pay back initial investment:								
								1.5 to 3.4								
Total stipend: \$6000 plus 37% fringe					\$8,220											
This stipend is to be split between all faculty involved in the redesign project in some equitable fashion. Duties include but not limited to:																
Software analysis and selection		Textbook analysis and selection						Maximum class or open lab session								
Assessment authoring		Learning materials authoring						starting times								
Instructional video production								M-Th	Fri	Sat						
					1	8:00 AM	8:00 AM									
					2	9:00 AM	9:00 AM	9:00 AM								
					3	10:00 AM	10:00 AM	10:00 AM								
					4	11:00 AM	11:00 AM	11:00 AM								
Classroom conversion funding: Assumes new furniture and computers are needed but extensive renovations are not required. Pricing includes tax, delivery, and assembly.					5	12:00 PM	12:00 PM									
					6	1:00 PM	1:00 PM									
					7	2:00 PM	2:00 PM									
Computers:	Quantity	Price	Extension		8	3:00 PM										
Desks	30	1200	36000		9	4:00 PM										
Chairs	30	1100	33000		10	5:00 PM										
Electrical upgrade			6000		11	6:00 PM										
Network upgrade and supplies			35000													
			10000													
			Total:	120000		Total				Multiplier	Total					
					weekly:	44	7	3	54							
A classroom can accommodate up to eleven, hour-long class meetings or open lab sessions per day on Monday to Thursday; up to seven, hour-long class meetings or open lab sessions on Friday; and up to three, hour-long class meetings on Saturday. As a practical matter, there would probably be 36 weekly class meetings, highlighted in yellow which is equivalent to 36 workload sections of a course per semester					Practical weekly class meetings			36								
					Difference			18			2	36				
					Second lab additional hours**			54			1	54				
					Gross required coverage							90				
					Instructor open lab hours			36			2	72				
					Net required weekly coverage							18				
											**Assumes second lab staffed by one faculty from this course and one from another					
Redesign course					cost of a		cost per									
annual cost estimate				annual	mid rank-		credit of									
workload		total	number of	3 and 4	total	credits of	step B	total								
sections	students	students	full-time	cost with	full-time	part-time	lecturer	part-time								
72	30	2160	faculty*	37% fringe	cost	faculty	w/fringe	cost*	*assumes 3-credit sections							
Traditional course					cost of a		cost per									
				annual	mid rank-		credit of									
workload		total	number of	3 and 4	total	credits of	step B	total								
sections	students	students	full-time	cost with	full-time	part-time	lecturer	part-time								
86	25	2150	faculty*	37% fringe	cost	faculty	w/fringe	cost*	*assumes 3-credit sections							
Gross savings					138522.22			92064								
New costs:																
Course coordination (3 credits release per year)					9894.4444			9894.4444			Assumed mid rank 3 and 4 faculty					
Casual hire tutors: \$30/hr x 18 hr/wk x 32 weeks					17280			17280			18 hours required per above calculation					
Student tutors: \$16/hr x 54 hr/wk x 32 weeks					27648			27648			54 student tutor hours per week for the second					
													The "other" course will pay for a second student			
					total	54822.444			54822.444							
Net cost savings					83699.778			37242								

