SLO_Physics_Plan.xlsx

ĺ	F20	Sp21		F21		Sp22		F22		S23		F23		Sp24		F24	T	Sp25
	Stambach	Graves		Simpson		Graves		Simpson		Graves						3		
201	1 Crockett	2 Crockett	201	Loughout	201	Graves	201	Simpson	1	Graves	1,2,3		1,2	2,3	1,2,	3	1,2,3	
		J. Comett	1,2,3		1		1,2,3	Fedrow	1	Simpson			٦Ć				1	
	Graves	Tibbets		Graves		Simpson		Graves		Simpson						1		
202	1 Tibbets	2 Olim	3	Crockett	202	Lambert	202	Lambert	202	Simpson	1,2,3		1,2	2,3	1,2,	3	1,2,3	
		1		x	1,2,3		1,2,3		1,2,3	Simpson								
202	Simpson	Tibbets		Tibbets		Fedrow				Fedrow						1		
203	1	2 1100003	3		4	<u></u>	203		1,2,3		1,2,3		1,2	2,3	1,2,	3	1,2,3	
130	1,2 Stambach		3,4	Stambach			1,2	Stambach	3,4	Stambach	1,2		3,	4	1,2		3,4	
131		1,2 Stambad			3,4	Stambach	1,2	Stambach	3,4	Stambach	1,2		3,		1,2		3,4	
110		<u> </u>			. <u>.</u>		1,2	Crockett		Crockett	1,2		1,		1,2		1,2	
							,		,		,						,	
1	1. Apply conservation	n of energy to estima	te solutio	ns to real world	proble	ms.												
201	 Use Newton's Second Law to analyze the forces acting on a system in order to obtain information about its motion (position, speed, acceleration). LAB - Demonstrate good measurement techniques using basic lab equipment such as rulers, scales, or sensors. 																	
	LAB - Demonstrate	good measurement	techniqu	es using basic la	b equip	ment such as ru	lers, sca	ales, or sensors										
	1. Use the laws of the	modupamics and lo	Maxwoll	's Equations to	organiz	a and colvo mult	i conce	ont physics pro	blome									
202	 Organize and comr 									atical equations	and ot	her visualiza	ation to	ols (ex: tables, a	graphs, pi	ctures, animati	ons, diag	rams).
2	3. LAB - Use the scientifi																,8	
						-				-								
	1. Use optics, relativi	stic, or quantum mo	dels to or	ganize and solve	emulti-	concept physics	proble	ems.										
203	2. Teach a modern ph			-					her visu	alization tools	ex: tabl	es, graphs, p	ictures	, animations, d	iagrams).			
r 4	3. LAB - Use the scientific method to design controlled experiments and analyze data including statistical and uncertainty analysis; distinguishing between models; and presenting those results with appropriate tables and charts.																	
	a. 1. Evaluate biological systems and medical technologies in order to articulate how physical concepts like motion, force, energy, and fluid dynamics govern their function and operation.																	
nev	-			-								-			eration.			
u o	2. Apply the principle												rpositio	on.				
130	 Use Newton's Seco Graph guantitation 												alac					
-	4. Graph quantitative	uata gatnered from	nonogica	i systems in ord	er to dr	aw scientific co	IICIUSIO	ns and predict	mathen	iacical relations	anps be	ween variat	nes.					
>	1 Evoluate biological	sustants and modia	Itochnol	agios in order to	ortioul	ato hour physics		onto liko olootri	e force	magnatism and	Iradiaa	ativo docovu	Tower of	their function o	nd on or o	tion		
nev	 Evaluate biological Apply the principle 			-						-			-					
11	 Apply the principle Apply the principle 							-		o obtain mom	ationa	bout the ver	UCITY ai	iu position oi c	nai geu pa	in ticles.		
131	 Use the scientific n 								c3.									
110	1. Apply the concept	of energy conservati	on to solv	e real world pro	blems.													
11	 Demonstrate abilit 	y to use scientific d	ata in ord	er to make info	rmed d	ecisions regard	ing pul	blic policy.										
OLD	1) Calus and blance										1							
		using a conceptual u using a conceptual u				inear or rotatio	nal ann	lications										
0		d momentum techn			Junen		nui upp	incutions.										
190					hem in sol	ving problems involvi	ng therma	al equilibrium, heat t	ransfer or	heat engines.								
	 Understand the concepts of heat, thermodynamics and ideal gases and be able to use them in solving problems involving thermal equilibrium, heat transfer or heat engines. LAB: Collect and analyze experimental data using graphical representation, including appropriate use of units and significant figures. 																	
	LAB: Relate the	esults of experimen	al data to	the physical co	ncepts	discussed in the	lecture	e portion of the	class.									
	1) Integrate simple																	
		ic charge or current																
200		C circuits in terms of						ch element										
7	 Use the relevant Maxwell's equations to analyze and calculate electromagnetic induction. LAB: Collect and analyze experimental data using graphical representation, including appropriate use of units and significant figures. 																	
	 LAB: Collect and ana LAB: Relate the re 																	
	, and the reaction of the reac										1							
	1) Analyze basic ph	ysical situations inv	olvingref	ection and refr	action	and use this ana	lysisto	predict the pat	hofali	pht ray.								
	 Analyze situations in 																	
2		from special relativi						,	J. Link									
		cepts of quantum m				l setups.												
		nalyze experimental da								i.								
	LAB: Relate the	results of experimen	al data to	the physical co	ncepts	discussed in the	lecture	eportion of the	class.		1							
		using a conceptual u					inear o	r rotational app	licatio	ns.								
~		e of energy and mor						grouitot!	mater	hohou's a								
130		ply fundamental ph of heat, thermodynamics a						-										
		of heat, thermodynamics a nalyze experimental da																
		esults of experimental da																
	, and the nervect the																	
	1) Solve problems	using a conceptual u	nderstan	dingofelectric	and may	netic fields.												
		e of potential and ir																
		ply fundamental ph					otics, a	nd interference										
131		basics of modern ph								ysics.								
		nalyze experimental da																
		esults of experimen																