	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Week 1	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug
	No School	No School	No School				
					Introduction;		
Class Topic					Housekeeping		
Core Idea(s)					N/A		
					Marshmallow		
					Challenge;		
4 -45 -54 -					Introductory		
Activity	24.4	4.6	2.6		Assessment	F.C.	
Week 2	31-Aug		2-Sep	3-Sep	4-Sep	5-Sep	6-Sep
		Holiday					
			Vectors; Constant		Constant Velocity and		
			Velocity and Relative		Relative Motion		
Class Topic			Motion (Analytic)		(Computational)		
Ciase repre			Forces cause change		Forces cause change		
Core Idea(s)			in momentum		in momentum		
			Project 1: Operation		Project 1: Operation		
		Pre-class homework 1:	_		River Boat Crossing:	Help Session in BPS	
Activity		due at 8:00pm	Part A		Part B	1410 (3pm - 6pm)	
Week 3	7-Sep	8-Sep	9-Sep	10-Sep	11-Sep	12-Sep	13-Sep
			- · · - ·		Iteractive Prediction		
			Constant Force - 1		of Motion - 2D		
Class Topic			Dimension & 2 Dimension (Analytic)		Kinematics + Drag (Computational)		
ciuss ropic			Forces cause change		Forces cause change		
Core Idea(s)			in momentum		in momentum		
- (/							
			Project 2: Escape from		Project 2: Escape from		
			Ice State McMurdo:		Ice State McMurdo:	Help Session in BPS	
Activity	1: due at 8:00pm	due at 8:00pm	Parts A & B		Part C	1410 (3pm - 6pm)	
Week 4	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep
			5 11 11 11 11 11		Predicting Motion with		
			Predicting Motion with		Non-constant forces -		
Class Topic			Non-constant forces - Springs (Analytic)		Springs (Computational)		
ciuss Topic			Forces cause change		Forces cause change		
Core Idea(s)			in momentum		in momentum		
			Project 3: Pinball		Project 3: Pinball		
	Post-class homework		Wizard Designer: Part		Wizard Designer: Part	Help Session in BPS	
Activity	2: due at 8:00pm	due at 8:00pm	A		В	1410 (3pm - 6pm)	

Week 5	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep
							2.41
			Predicting Motion with				
			Non-constant forces -				
			Gravitation (Analytic				
Class Topic			& Computational)		Exam 1		
			Forces cause change		Forces cause change		
Core Idea(s)			in momentum		in momentum		
	Post-class homework	Pre-class homework 4:	Project 4: Orbiting the		In-class Individual &	Help Session in BPS	
Activity	3: due at 8:00pm	due at 8:00pm	Earth		Collaborative Exam	1410 (3pm - 6pm)	
Week 6	28-Sep	29-Sep	30-Sep	1-0ct	2-0ct	3-Oct	4-0ct
			Ball and spring model;				
			Tension and				
Class Topic			Compression		Friction		
,			Atomic interactions		Atomic interactions		
			cause macropcopic		cause macropcopic		
			phenomenon; Forces		phenomenon; Forces		
			cause change in		cause change in		
Core Idea(s)			momentum		momentum		
			Project 5: Ophelia		Project 5: Ophelia		
			Sarkissian (Viper)		Sarkissian (Viper)		
	Post-class homework	Pre-class homework 5:	breaks into		breaks into	Help Session in BPS	
Activity	4: due at 8:00pm	due at 8:00pm	S.H.I.E.L.D.: Part A		S.H.I.E.L.D.: Part B	1410 (3pm - 6pm)	
Week 7	5-Oct	6-Oct	7-0ct	8-Oct	9-0ct	10-Oct	11-0ct
			Multiparticle systems;		Curving Motion		
			Conservation of linear		(Analytic &		
Class Topic			momentum (Analytic)		Computational)		
			Atomic interactions		,		
			cause macropcopic				
			phenomenon; Forces				
			cause change in		Forces cause change		
Core Idea(s)			momentum		in momentum		
, ,			Project 6:				
	Post-class homework	Pre-class homework 6:	Investigating a car			Help Session in BPS	
Activity	5: due at 8:00pm	due at 8:00pm	accident		Project 6	1410 (3pm - 6pm)	
					,	(-1 -1)	

Week 8	12-Oct	13-0ct	14-0ct	15-Oct	16-Oct	17-Oct	18-Oct
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		15 500	11.000	15 500	10 000	., 500	10 000
Class Topic			Energy Conservation; Work by Constant Forces Forces cause change		Energy Conservation; Work by non-constant forces (analytic + computational) Forces cause change		
Core Idea(s)			in momentum; Energy is conserved		in momentum; Energy is conserved		
Activity	Post-class homework 6: due at 8:00pm	Pre-class homework 7: due at 8:00pm	Project 7		Project 7	Help Session in BPS 1410 (3pm - 6pm)	
Week 9	19-Oct						25-Oct
WCCK >	17 000	20 000	21 000	22 000	23 000	24 000	25 000
Class Topic Core Idea(s)			Multiparticle systems; Center of mass; Rotational and Vibrational Kinetic energy Forces cause change in momentum; Energy is conserved		Exam 2		
core idea(s)			is conserved				
Activity	Post-class homework 7: due at 8:00pm	Pre-class homework 8: due at 8:00pm	Project 8		In-class Individual & Collaborative Exam	Help Session in BPS 1410 (3pm - 6pm)	
Week 10	26-Oct	27-0ct	28-Oct	29-Oct	30-Oct	31-Oct	1-Nov
Class Topic			Multiparticle Systems & Potential Energy; spring potential & local gravitational PE		Multiparticle Systems & Potential Energy; gravitational PE & graphing PE (analytic + computational)		
Core Idea(s)			Energy is conserved		Energy is conserved		
Activity	Post-class homework 8: due at 8:00pm	Pre-class homework 9: due at 8:00pm	Project 9		Project 9	Help Session in BPS 1410 (XXpm - XXpm)	
Week 11	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov
			Thermal Energy; Energy Transfer;		Point particle & real		
Class Topic			Dissipation		system		
Core Idea(s)			Energy is conserved		Forces cause change in momentum; Energy is conserved		
Activity	Post-class homework 9: due at 8:00pm	Pre-class homework 10: due at 8:00pm	Project 10		Project 10	Help Session in BPS 1410 (3pm - 6pm)	

Week 12	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov
Class Tarris			Friedrick Calliniana		Collisions; Rutherford experiment		
Class Topic			Friction; Collisions Forces cause change		(Computational) Forces cause change		
Core Idea(s)			in momentum; Energy is conserved		in momentum; Energy is conserved		
Activity	Post-class homework 10: due at 8:00pm	Pre-class homework 11: due at 8:00pm	Project 11		Project 11: The Rutherford experiment	Help Session in BPS 1410 (3pm - 6pm)	
Week 13	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov
Class Topic			Angular momentum; torque; Tranlational vs rotational angular momentum		Exam 3		
Core Idea(s)			Torques cause changes in angular momentum				
Activity	Post-class homework 11: due at 8:00pm	Pre-class homework 11: due at 8:00pm	Project 12		In-class Individual & Collaborative Exam	Help Session in BPS 1410 (3pm - 6pm)	
Week 14	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov
Class Topic			Conservation of angular momentum		Holiday	Holiday	
Core Idea(s)			Forces cause change in momentum; Energy is conserved; Torques cause changes in angular momentum				
Activity	Post-class homework 12: due at 8:00pm	Pre-class homework 12: due at 8:00pm	Project 13				

Week 15	30-Nov	1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec
			Conservation of				
			angular momentum;				
			Non-zero external		Conservation		
Class Topic			torque		theorems applied		
			Forces cause change		Forces cause change		
			in momentum; Energy		in momentum; Energy		
			is conserved; Torques		is conserved; Torques		
			cause changes in		cause changes in		
Core Idea(s)			angular momentum		angular momentum		
	Post-class homework	Pre-class homework				Help Session in BPS	
Activity	13: due at 8:00pm	13: due at 8:00pm	Project 14		Project 14	1410 (3pm - 6pm)	
Week 16	7-Dec	8-Dec	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec
		Finals	Finals	Finals	Finals	Finals	
			Final Exam (8-10pm)				