

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

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

Week 8	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct
<i>Class Topic</i>			Energy Conservation; Work by Constant Forces		Energy Conservation; Work by non-constant forces (analytic + computational)		
<i>Core Idea(s)</i>			Forces cause change in momentum; Energy is conserved		Forces cause change in momentum; Energy is conserved		
<i>Activity</i>	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 (XXpm - XXpm)	
Week 9	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct
<i>Class Topic</i>			Multiparticle systems; Center of mass; Rotational and Vibrational Kinetic energy		<b>Exam 2</b>		
<i>Core Idea(s)</i>			Forces cause change in momentum; Energy is conserved				
<i>Activity</i>	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 (XXpm - XXpm)	
Week 10	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	1-Nov
<i>Class Topic</i>			Multiparticle Systems & Potential Energy; spring potential & local gravitational PE		Multiparticle Systems & Potential Energy; gravitational PE & graphing PE (analytic + computational)		
<i>Core Idea(s)</i>			Energy is conserved		Energy is conserved		
<i>Activity</i>	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
<i>Class Topic</i>			Thermal Energy; Energy Transfer; Dissipation		Point particle & real system		
<i>Core Idea(s)</i>			Energy is conserved		Forces cause change in momentum; Energy is conserved		
<i>Activity</i>	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 (XXpm - XXpm)	

Week 12	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov
<i>Class Topic</i>			Friction; Collisions		Collisions; Rutherford experiment (Computational)		
<i>Core Idea(s)</i>			Forces cause change in momentum; Energy is conserved		Forces cause change in momentum; Energy is conserved		
<i>Activity</i>	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 (XXpm - XXpm)	
Week 13	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov
<i>Class Topic</i>			Angular momentum; torque; Translational vs rotational angular momentum		<b>Exam 3</b>		
<i>Core Idea(s)</i>			Torques cause changes in angular momentum				
<i>Activity</i>	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 (XXpm - XXpm)	
Week 14	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov
					Holiday	Holiday	
<i>Class Topic</i>			Conservation of angular momentum				
<i>Core Idea(s)</i>			Forces cause change in momentum; Energy is conserved; Torques cause changes in angular momentum				
<i>Activity</i>	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
<i>Class Topic</i>			Conservation of angular momentum; Non-zero external torque		Conservation theorems applied		
<i>Core Idea(s)</i>			Forces cause change in momentum; Energy is conserved; Torques cause changes in angular momentum		Forces cause change in momentum; Energy is conserved; Torques cause changes in angular momentum		
<i>Activity</i>	Post-class homework 13: due at 8:00pm	Pre-class homework 13: due at 8:00pm	Project 14		Project 14	Help Session in BPS 1410 (XXpm - XXpm)	
Week 16	7-Dec	8-Dec	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec
		Finals	Finals	Finals	Finals	Finals	
			<i>Final Exam (8-10pm)</i>				