

**EN PH 131 – Winter 2023**  
**Tentative Lecture Schedule**

	<b>Week ending Friday</b>	<b>Content</b>	<b>Sections in Texts</b> H: Hibbeler (14 <sup>th</sup> )	Practice Problems Posted on eClass Suggested due date: <b>Friday</b> of the week
1	Jan 6 (First class Jan 6)	Introduction (to course, syllabus, eClass, etc.). Review units, dimensional analysis, and calculus	12.1	Problem Set 1
2	Jan 13	Rectilinear kinematics, Curvilinear kinematics	12.2-12.5	Problem Set 2
3	Jan 20	Projectile motion. Planar motion of particles: Normal and Tangential coordinates	12.6-12.7	Problem Set 3
4	Jan 27	Relative motion/constrained motion of particles	12.9, 12.10	Problem Set 4
5	Feb 3	Force and acceleration: rectangular coordinates	13.1-13.4	Problem Set 5
6	Feb 10	Force and acceleration: Normal and Tangential coordinates. Midterm review <b>Midterm Sat. Feb 11, 2022, 2:00-3:30pm</b>	13.4-13.5	Problem Set 6
7	Feb 17	Principle of work and energy	14.1-14.4	Problem Set 7
8	Feb 24	Reading week		
9	Mar 3	Potential energy and conservation of energy	14.5-14.6	Problem Set 8
10	Mar 10	Principle of impulse and momentum	15.1 – 15.3	Problem Set 9
11	Mar 17	Conservation of momentum and impact	15.3-15.4	Problem Set 10
12	Mar 24	Kinematics and kinetics of rigid bodies	16, 17 Lecture notes	Problem Set 11
13	Mar 31	Work and energy of rigid bodies	18 Lecture notes	Problem Set 12
14	Apr 7 (Last class Apr 5)	Impulse and momentum of rigid bodies	19 Lecture notes	Problem Set 13
		<b>Final Exam Tuesday Apr 15, 2022, 9:00-11:30am (tentative)</b>		