UNIVERSITY OF CALIFORNIA
Department of Mechanical Engineering   **ME104–Engineering Mechanics II**
Professor S. Morris, 6115 Etcheverry   **Fall 2017**
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Text (required). Meriam et al. 2015 *Dynamics*, 8th ed.,Wiley.

Grades. Quizzes (weeks 3,5,$\cdots$,11,14); your best 5: 10%; tests 1,2: 20% each; final 50%

Tests. Closed book, requiring symbolic answers. Homework: not collected or graded. Tests cover only topics on which homework has been given. (Questions are different.)

Week	Monday	Topic	Text
1	8/23	Kinematics: Cartesian coordinates	2.1–2.4
		Polar coordinates.	2.6
		Normal and tangential components	2.5
2	8/28	Translating axes	2.8
3	9/4	**Holiday**	
		Constraints	2.9
		Newton's laws. Free–body diagram.	3.1–3.5
4	9/11	Work and energy	3.6,3.7
		Impulse and momentum	3.8,3.9
		Angular impulse, angular momentum	3.10
5	9/18	Impact	3.11,3.12
		Central forces	3.13
6	9/25	Systems of particles	4.1,4.2
	9/29	**1st TEST (Fri.)**	**CLOSED BOOK**
7	10/2	Kinetics of systems	4.3–4.5
		Plane kinematics of rigid bodies	5.1–5.4
8	10/9	Plane kinematics of rigid bodies	5.5–5.6
9	10/16	Rotating axes	5.7
10	10/23	Plane kinetics of rigid bodies	6.1–6.3
	10/27	**2nd TEST (Fri.)**	**CLOSED BOOK**
11	10/30	General equations of motion	6.4,6.5
12	11/6	Work and energy	6.6
	11/10	**Holiday**	
13	11/13	Impulse and momentum	6.8
14	11/20	Quiz 6 (I will be at APS/DFD)	
	11/22	**Holiday**	
15	11/27	Vibration	8.1–8.3

FINAL TEST (closed book): Mon. 2017.12.11, 7-10pm