

**Text:** Meriam et al. *Dynamics*. 9th ed., (electronic) ISBN: 9781119390985. Wiley  
**Grades:** Quizzes (closed book): held in last 20 minutes of class, dates below, your best 4/6: 10%; tests 1,2: 20% each; final 50%. Homework: not collected or graded.  
**Tests:** Closed book, requiring symbolic answers. Tests cover only topics on which homework has been given. (Questions are different.) If you miss one of the two in-class tests, your grade for that missing test will be the appropriate fraction (two-fifths ) of the grade you receive on the final 3 hour test.

Week	Monday	Topic	Text
1	1/22	Kinematics: Cartesian coordinates Polar coordinates. Normal and tangential components	2.1–2.4 2.6 2.5
2	1/27	Translating axes	2.8
3	2/3	Constraints Newton’s laws. Free–body diagram.	2.9 3.1–3.5
	2/7	<b>1st Quiz</b>	
4	2/10	Work and energy Impulse and momentum Angular impulse, angular momentum	3.6,3.7 3.8,3.9 3.10
5	2/17	<b>Holiday</b> Central forces	3.11,3.12 3.13
	2/21	<b>2nd Quiz</b>	
6	2/24 2/28	Systems of particles <b>1st TEST (Fri.)</b>	4.1,4.2 <b>CLOSED BOOK</b>
7	3/2	Kinetics of systems Plane kinematics of rigid bodies	4.3–4.5 5.1–5.4
	3/6	<b>3rd Quiz</b>	
8	3/9	Plane kinematics of rigid bodies	5.5–5.6
9	3/16 3/20	Rotating axes <b>4th Quiz</b>	5.7
	3/23	<b>Spring break</b>	
10	3/30 4/3	Plane kinetics of rigid bodies <b>2nd TEST (Fri.)</b>	6.1–6.3 <b>CLOSED BOOK</b>
11	4/6 4/10	General equations of motion <b>5th Quiz</b>	6.4,6.5
12	4/13	Work and energy	6.6
13	4/20 4/24	Impulse and momentum <b>6th Quiz</b>	6.8
14	4/27	Impulse and momentum	