

**ENG ME 302 Engineering Mechanics II****Spring 2015**

Prof. Raymond J. Nagem  
110 Cummington St., Room 420  
617 353-5925  
nagem@bu.edu

Text: J. H. Williams, Jr., *Fundamentals of Applied Dynamics*, Wiley  
& Sons, 2006.

<u>Week Beginning</u>	<u>Topics</u>	<u>Reading</u>
1/19	Kinematics of particles	Ch. 1, Ch. 2, Sec. 3.2
1/26	Kinetics of particles	Secs. 4.1–4.4
2/2	"	"
2/9	Kinematics of moving reference frames	Secs. 3.3–3.6
2/16	"	"
2/23	Kinetics of rigid bodies	6.1–6.4
3/2	"	"
3/9	Work and energy, generalized coordinates	5.1–5.4
3/16	Spring recess	
3/23	Lagrange's equation for systems of particles	5.4–5.7
3/30	"	"
4/6	Lagrange's equation for systems of rigid bodies	6.5–6.6
4/13	"	"
4/20	Mechanical vibrations	8.1–8.4
4/27	"	"

Grading Three tests, each worth 25% of final grade;  
Homework assignments, together worth 10% of final grade;  
Laboratory Project, worth 15% of final grade.