ENGR-2060
Engineering Mechanics – Dynamics (3 cr.)
Course Syllabus
Spring 2016

Text: *Engineering / Vector Mechanics; Dynamics*
Bedford, Beer, or Hibbeler published after 2000
Time: Fri, 2-4, 7-9 pm
Place: KC-Room 0076
Instr.: Professor Jody Robinson, KC-2180
Web: http://faculty.ccri.edu/jsrobinson/
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Description:

This course covers the application of Newton's law of motion, to include kinematic and kinetic studies of the motion of systems of particles and rigid bodies, acted upon by unbalanced forces. *(Prerequisites: ENGR 2050 and MATH 1920) Lecture: 4 hours*

Evaluation:

3 Semester Exams	60%	(20% each)
Comprehensive Final	30%	
Quizzes	10%	

Topics:

Introduction, Rectilinear Motion
Curvilinear Motion
Dependent/Relative Motion
Equation of Motion
Curvilinear Equation of Motion
Exam 1
Work and Energy
Impulse and Momentum
Impact and Angular Momentum
Exam 2
Rigid Body Kinematics
Rigid Body Kinetics; Force and Acceleration
Exam 3
Rigid Body Kinetics; Work and Energy
Rigid Body Kinetics; Impulse and Momentum
Final Exam