AE 220-01 – Dynamics – Fall 2013
Schedule # 20003 – MW 2:00 – 3:15 pm @ IT–201

Instructor: Dr. Nancy Cawley  NCawley@mail.sdsu.edu

Office Hours: M & W: 11:30 – 12:30 pm, or by appointment.
Office Location: E 224

Required Textbook: We will be using a custom textbook, available at the SDSU bookstore: "SELECTED MATERIALS FOR VECTOR MECHANICS FOR ENGRS: DYNAMICS 10TH W CONNECT PLUS 2 SEMESTER ACCESS CODE". You may also purchase the complete text by Beer & Johnston, "Vector Mechanics for Engineers, Dynamics, 10th edition", and buy the access code for Connect separately.

Prerequisites: EM 200 with a grade of C or better.

Course Topics:

Chapter 11: Kinematics of Particles
Chapter 12: Kinetics of Particles: Newton’s Second Law
Chapter 13: Kinetics of Particles: Energy & Momentum Methods
Chapter 14: Systems of Particles
Chapter 15: Kinematics of Rigid Bodies
Appendix B: Moments of Inertia of Masses
Chapter 16: Plane Motion of Rigid Bodies

Grading: 4 Exams: 15% each
Cumulative Final Exam: 30%
Homework: 15% (includes a possible 5% extra credit)

Homework: Homework will be assigned almost every class, and will be due on the day of the next class meeting. We will be using McGraw-Hill’s “Connect” for all homework, which will be submitted online through Blackboard & Connect. Instructions for accessing & completing the homework assignment can be found on the Blackboard website. You will need the access code that comes with your textbook, and your SDSU email address must be used as your login (or you won’t get credit for the homework in Blackboard). You are encouraged to work on homework in groups, as this tends to improve most students learning of the material. However, you must submit your own answers online. A list of the assigned homework problems will also be provided on Blackboard, however you will notice that when you do the homework online, the numeric values in the problems may be different than those in the text. So again, you must do the homework problems online to get credit.
Exams: 4 Exams will be given – see the schedule for dates. Exam problems will be similar to homework problems and example problems worked out in class, and all exam problems will be multiple choice. No make-up exams will be given. Exams will be closed book, however a notes sheet will be provided with the exam. No other materials will be allowed.

Cumulative Final Exam: The Final Exam in this class will be cumulative, and will be given Monday, December 16, from 1:00 – 3:00 pm, in our usual classroom. The Final Exam will be closed book, and all problems will be multiple choice. Notes sheets will be provided for your use during the exam. No other materials will be allowed. Also note that University policy states that any final exam conflicts must be brought to my attention – in writing – within the first 2 weeks of classes.

Policies:
1. You may not use cell phones, iPods, laptop computers, or any other electronic equipment during class. If you have an emergency situation, put your phone on vibrate, and take any calls outside in the hallway.
2. I expect you to read the text, and I also expect your full attention while in class. Some of the material covered in class is either not covered in the text, or not covered in as much detail as will be provided in class. In order to do the homework and the exams, you will need material covered in class as well as material and examples in the text.
3. It is expected that you know how to integrate and differentiate, and these skills will be needed to do the homework and exams.
4. You will need access to and familiarity with the SDSU Blackboard website, http://blackboard.sdsu.edu. You should plan to check it often, for homework assignments, course announcements, your grades, and other course documents, which will be posted on the site.
5. Only University approved excuses for absences will be approved. The schedule for the entire semester is given on the first day of class, so students should plan accordingly. If you wish to request an excused absence, please provide your request to be excused – in writing – along with any required documentation, in advance if possible, but absolutely no later than immediately upon your return to class.