

**Syllabus**  
**ENGR 251 Dynamics (Online Section)**  
**Spring 2009**

**Instructor:** Pam Ridgely

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**Office Hours:** Tu/Th 5-5:30pm (except test days) in 4315, online through Blackboard 7-7:30pm every Wednesday, 7-8pm Monday before each test and by appointment.

**Class Information:** <http://academic.cuesta.edu/pridgely/> or from Blackboard

**Classroom Medium:** Blackboard, through <http://blackboard.cuesta.edu/> Check twice a week for announcements.

**Course Description:** Analyzes the dynamics associated with motion of rigid bodies and particles, including velocity, acceleration, relative motion, energy, work, momentum, and impulse. Utilizes vector mathematics. Includes 3-D.

**Prerequisite:** Engineering 250, Statics. See <http://em-ntserver.unl.edu/NEGAHBAN/EM373/math.htm> for the math you need to know for this class

**Transferability:** CSU; UC.

**Textbook:** Vector Mechanics for Engineers: Dynamics, 7<sup>th</sup> or 8<sup>th</sup> Ed., Beer, et al. Copy on reserve at library  
Optional lecture notes available on Blackboard.

<b>Grading:</b>	Final exam 30%	≥90%	A
	4 Tests at 15% each	80-89.9%	B
	Weekly assignments and participation totaling 10%	70-79.9%	C
	(Grades 3% or less on either end of scale will be +/-)	60-69.9%	D
<b>Final Exam:</b>	Tuesday May 19, 4:30-6:30pm in 4118 (comprehensive)	0-59.9%	F

**Test/Assignment/Homework Format:** Each problem must:

- be done on the provided paper or one-sided 8.5"x11" paper (Engineering paper preferred). Use pencil.
- be neatly organized and easily readable.
- be in sequence, preferably on its own page. Make a note if the problem is continued elsewhere.
- define the coordinate system(s) used, if applicable.
- contain applicable diagrams -- even if it seems trivial.
- state basic equations used before any variables are substituted.
- state any assumptions made and justify them.
- be self-explanatory. Explicitly explain anything that might be unclear.

**Lectures:** Online lectures will be made available through the class Blackboard site. You may also attend lectures for the in-class section of the class on Tu, Th 5:30-6:50pm (**not** 5:40pm) in 4118.

**Tests:** Tests are **4:30pm-5:30pm** or **5:40pm-6:40pm** on scheduled dates in 4118 or 4114. No makeup will be permitted. Calculators may be used. All work must be shown in order to receive credit and adhere to the format stated above. Tests are closed book and notes. A one-sided (two-sided for the final) handwritten equation sheet is allowed for each test. It must not contain any specific example or problem. Show a photo ID when you turn in the test. Pick up the graded test during office hours or bring a SASE to the test if you want it returned before the next test.

**Weekly Assignments:** You will have weekly online assignments given and submitted through Blackboard.

**Online Participation:** There will be a discussion board on Blackboard where you can ask and answer questions about the homework, online assignments, or anything related to the class, form study groups, etc. You are encouraged to use this resource to get help, and to help others. Your participation on the discussion board will be part of your grade.

**Homework:** Although you are not required to turn in your homework, you are expected to do it in order to help you learn the materials. Homework solutions will be made available on Blackboard in the evening of the due date. I will be happy to help you look at your homework provided that it adheres to the format stated above. You can either bring it with you to office hours or email me the scanned problems through Blackboard.

**Online Learning Center (OLC):** Your textbook has online resources that include chapter summaries, sample problems, and quizzes. The use of the OLC is encouraged. It can be accessed through Blackboard.

**24/7 Distance Education Help Desk:** for technical issues related to distance education or Blackboard. Phone (866)847-3251 or <http://d2.parature.com/ics/support/default.asp?deptID=4186>

**Tutorial Services:** A free 1 hr/wk tutorial service is provided by the college. Inquire at building 3300.

**Student Code of Conduct:** You are expected to abide by the information contained in the Cuesta College Catalog and by the Student Code of Conduct or disciplinary action will be taken.