

Syllabus

ENGR 51 Dynamics (Online Section)

Fall 2007

Instructor: Pam Ridgely

Email: pridgely@cuesta.edu (include [E51] in subject) or through Blackboard

Office Hours: Tu, Th 5:00-5:30pm (except test days) in 4118. Online through WebCT 8-9pm Mondays before tests (9/10, 10/1, 10/29, 11/26, 12/17) and by appointment. (I have no office on campus)

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 50, 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, 7th or 8th Ed., Beer, et al. Copy on reserve at library
Optional lecture notes available on Blackboard.

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| Grading: | Final exam 30% | ≥90% | A |
| | 4 Tests at 15% each | 80-89.9% | B |
| | Weekly assignments and participation totaling 10% | 70-79.9% | C |
| | | 60-69.9% | D |
| | | 0-59.9% | F |

Final Exam: Tuesday December 18, 4:30-6:30pm (comprehensive) in 4118

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 any equations used before 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 5:30-6:45pm (**not** 5:40pm).

Tests: Tests are **4:30pm-5:30pm** or **5:40pm-6:40pm** on scheduled dates. 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. The equation sheet must not contain any specific example or problem. Show a photo ID when you hand 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 Dynamics. 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 WebCT.

24/7 Distance Education Help Desk: for technical issues related to distance education or Blackboard. Phone (866)847-3251 or <http://supportcenteronline.com/ics/support/default.asp?deptID=4187>

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.