MEC262
Engineering Dynamics
Spring 2011
3 credits

Course Topics:


Text Book:


Course Website: http://blackboard.stonybrook.edu/

Instructor:

Prof. Chad S. Korach
141 Light Engineering
Phone: (631) 632-1182
E-mail: chad.korach@stonybrook.edu
Office Hours: Tuesday 1-3 pm (or by appointment)

Teaching Assistants:

1. Jian Yao
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2. Zhongjie Li
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Tel.: 632-7603
Office Hours and location: Fri. 2pm-4pm, Heavy Engineering 211

Lecture and Recitations Time and Place:

Lectures: MWF 10:40AM - 11:35AM Javits Lecture Hall 103
Recitation 1: Mon. 3:50PM - 4:45PM Harriman Hall 112
Recitation 2: Mon. 12:50PM - 1:45PM Harriman Hall 108

Although I do not require you to attend lectures and recitations, it is important that you don’t miss them. If you do miss a class, you are still responsible for finding out what was covered in that class and get lecture notes from your class-mates. Historically, students missing lectures and recitations consistently have done poorly in this class. As a courtesy to other students, please don’t walk out of a lecture once you are in the class or talk to your class-mates. If you have a question, please ask me. Also, please turn your cell phones off before a class begins.
Grading:

Assignments 20%
Two Midterms 40% (Each test is worth 20%)
Final Exam 40% (Comprehensive)

Competency Exams (See below)

- All exams will be scheduled in class, unless otherwise stated
- If you miss an exam due to unforeseen events, you will have to provide me a proof of the reason, such as doctor’s certificate for a medical emergency or death certificate for death in family before I will give you a makeup exam. There will be no make-up exams for reasons that I deem are or were within your control. Thus, this rules out reasons such as pre-arranged vacation, travel, conflict with other exams or engagements. An exception to this is the student athletes who are to provide me with their playing schedule for the semester within first week of the class.
- It is important to note that in order for you to earn a passing grade in this class, you have to complete and pass all “Competency Exams” assigned. Failure to comply with this requirement of competency exams and will result in a letter grade of “F”.

Homework:

Homework will be assigned approximately once a week, and posted on blackboard. I will send an email when a HW is posted. You can access Blackboard at: http://blackboard.sunysb.edu. Use your NetID and password to log in. Your NetID is different from your Stony Brook ID number. If you are not sure what your NetID is, or if you have problems with your password, please read these instructions, or contact the TLT Student Help Desk.

Homework must be turned in at the beginning of the class on the specified due date. No late homework will be accepted. Graded homework will be returned during recitations or lectures. A few or all problems may be selected to grade your HW. I will drop your lowest HW grade while calculating your overall final score.

Please adhere to the following guidelines for submission (Not following these guidelines will result in deduction of points by the grader)

1. Homework will be accepted only on engineering paper or on A4/letter sized white or line-ruled paper.
2. Staple neatly in top left corner. I don’t bring a stapler to the class, so please don’t ask for it.
3. Write your name and ID in the top right corner of the first page.
4. Homework will be accepted only during class, at the beginning of the lecture.

Expectations:

1. Communication
   I use blackboard exclusively to communicate with you, and therefore, it is your responsibility to make sure that your email ID is current one on blackboard system. I send a test email to everyone after the first class. If you do not receive it, check your settings in blackboard or your junk/spam box.

2. Fundamentals
   From your pre-requisite classes, you should have acquired a working knowledge of:
   1. Basic Trigonometry (sines, cosines, basic trigonometry formula, etc.) and Geometry
   2. Vector Calculus (differentiating and integrating vector functions) and Vector Algebra (adding two vectors, Dot and Cross products, etc.)
   3. Free Body Diagram (FBD)
   4. Differential and Integral Calculus
Calculator Policy:

Effective Spring, 2009 only the following calculators will be permitted to be used on all midterm and final exams in the Department of Mechanical Engineering. There will be no exceptions. This list of calculators is identical to that allowed for the National Council for Examiners for Engineering and Surveying (NCEES) Fundamentals of Engineering (FE) exam that many of you will take in your senior year as well as the Professional Engineering (PE) exam that you may take several years from now. The sooner you become comfortable on one of these calculators, the better.

NCEES Allowed calculators as of Spring 2009:
- Casio: All fx-115 models. Any Casio calculator must contain fx-115 in its model name.
- Hewlett Packard: The HP 33s and HP 35s models, but no others.
- Texas Instruments: All TI-30X and TI-36X models. Any Texas Instruments calculator must contain either TI-30X or TI-36X in its model name.

The NCEES policy on calculators can be found here: [http://www.ncees.org/exams/calculators/](http://www.ncees.org/exams/calculators/)

Academic Conduct and Integrity:

The campus policies on academic honesty are available on the Web ([http://naples.cc.sunysb.edu/CAS/aic.nsf/pages/info](http://naples.cc.sunysb.edu/CAS/aic.nsf/pages/info)).

Academic dishonesty is an extremely serious offense and will not be tolerated in any form. Academic dishonesty in general is the presentation of intellectual work that is not originally yours. Examples include, but are not limited to, copying or plagiarizing class assignments including homework, reports, designs, computer programs, graphics, and other submitted materials; copying or otherwise communicating answers on exams with other students; bringing unapproved aids, either in physical (written) or electronic form to an exam; obtaining copies of an exam prior to its administration, etc. Academic dishonesty violates both the ethical and moral standards of the Engineering profession and all infractions related to academic dishonesty will be prosecuted to the fullest via the CEAS CASA committee. For you, the honest student, academic dishonesty results in lower class curves, hence a depression in your GPA and class standing, while cheapening the degree you earn.

Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at [http://www.stonybrook.edu/uaa/academicjudiciary/](http://www.stonybrook.edu/uaa/academicjudiciary/)

Special Note on ADA:

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services, ECC (Educational Communications Center) Building, room 128, (631) 632-6748. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential. Students requiring emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information, go to the following web site [http://www.ehs.sunysb.edu/fire/disabilities/asp](http://www.ehs.sunysb.edu/fire/disabilities/asp).

Critical Incident Management:

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students’ ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures.