Instructor

Prof. Anurag Purwar
169 Light Engineering
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Office Hours: Wed 2-4 pm (or, by appointment)

Teaching Assistants

1. Xiaoming Chen
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   Office Hours and location: Mon 1:30-3:30 pm, Heavy Engineering 211

2. Cunyou Lu
   lvcy04@gmail.com Phone: 2-8341
   Office Hours and location: Tue 3:00-5:00 pm, Light Engineering 134F

Lecture and Recitations Time and Place

Lectures: MoWeFr 10:40AM - 11:35AM Javits Lecture Hall 103
Recitation 1: Mo 3:50PM - 4:45PM PHYSICS P112
Recitation 2: Mo 12:50PM - 1:45PM HVY ENGR LAB 201

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.

Course URL: https://chalk.ic.sunysb.edu/webapps/login/

Course Topics


Text Book

This book should be available for purchase at the campus bookstore, however, you may also be able to find it cheaper online by using a price comparison search engine, such as addall.com or bestwebbuys.com

Grading

Assignments 20%
Two Midterms 40% (Each test is worth 20%)
Final Exam 40% (Comprehensive)
Occasionally, I award a few extra credit points for class participation and for answering my questions which can be easily answered if you regularly attend lectures and pay attention.

• 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.
• 1 single-sided cheat sheet is allowed for each of the two midterms and 2 double-sided cheat sheets are allowed for the final.
Cheat sheets can not contain solutions to any problems from the text or anywhere else. However, you are allowed to write
procedures, formulas, or any other descriptions in it. The exams are closed book/notes.

Homework

Homework will be assigned approximately every class, and posted on this site or at 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.
If for some reasons, you can not come to the class on a day when a HW is due, please scan it, and send it to both the T.A.s
and copy me on that email. I will accept HWs like this only for exceptional cases. Graded homework will be returned during
recitations or lectures. A few or all problems may be selected to grade your HW. To encourage you in doing your own HW, I
will be giving you 100% point on any HW, if you score 70% or above. You do not get any points, if you do not submit a
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 paper. This rules out papers torn
   apart from your notebook or diary.
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 class.

Expectations

1. Communication
   I use email and blackboard exclusively to communicate with you, and therefore, it is your responsibility to make
   sure that your email id is a current one on the blackboard system. I send a test email to everyone before the first
class. If you do not receive it, check your settings in blackboard or your junk/spam box. I suggest that you use a
university email id for this class; it is free and official. I am not responsible for the emails not delivered to your
free/paid commercial email accounts. You can change your email address in blackboard yourself. Please do not ask
me to do it for you.

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**

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

**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).