

General Course Information

T&AM 203 (Dynamics), Spring 2000

(as of February 23, 2000)

Staff

Lecturers: Joe Burns, Kimball 209, jab16@cornell.edu, 255-7186. (also: 328 Space Sciences, 255-6909)
Andy Ruina, Kimball 309, ruina@cornell.edu, 277-5675.

Lectures Tu/Th at 10:10 (Thurston 203) &
12:20 (Thurston 201, moved from Th 205).
Attend either lecture.

Teaching Assistants: David Cabrera - dsc16 - 306 Kimball - 5-7108
Pritam Ganguly- pg45 - 234 Thurston - 5-9174
Dong-Ping Liang dl96- 231 Thurston - 5-8654

Recitation schedule:

9:05	UP207	#2	Ganguly
10:10	UP207	#3	<i>*Cancelled*</i>
11:15	HO372	#1	Cabrera
12:20	HO372	#5	Burns/Ruina
12:20	UP215	#8	Cabrera
1:25	HO362	#4		Ganguly

Lab Supervisor: Dan Mittler, Kimball 218, 255-9172, dm68@cornell.edu. See Dan about problems with lab equipment, see your lab TA about lab questions, and Joe Burns or Andy Ruina about lab content and policies.

Pre-requisites, Co-requisites

Math: Math 293 is a pre-requisite, Math 294 is a co-requisite. Competence with material from these and earlier courses is needed, including vectors, simple ODEs, basic matrix algebra (including eigenvectors), and 2D and 3D integrals.

T&AM 202 T&AM 202 is pre-requisite. Competence at dynamics depends on understanding statics.

Printed Resources

Required Text: The text, AN INTRODUCTION TO STATICS AND DYNAMICS by Rudra Pratap and Andy Ruina, will be passed out with three-hole punches in lecture as the semester progresses. This is a substantial revision of previous versions of the text. You will need the thickest three-ring binder you can get. The first 234 page (117 sheet) handout will be in lecture on Thursday 2/27.

Some other test books are on reserve at the engineering library.

Lab Manual: The Lab manual will be passed out in lecture on Thursday February 3.

MATLAB book: GETTING STARTED WITH MATLAB by Rudra Pratap is recommended.

Computers

What kind: *MATLAB* is available for all engineers in Upson and Carpenter Halls. Lecture examples, prelims, and the final exam will use *MATLAB*.

Write your name: For every page of computer work you turn in, you should have the computer write your name. That is, include your name in program comments, figure titles, data tables, etc. Use a highlight pen or colored underline to help the TAs find your name in the output.

Lab

(Lab 1 starts Feb 7)

The lab schedule will be posted in the hall outside Thurston 101 on Friday January 28. You will go to 4 labs, about once every three weeks, during the semester. Each of the four labs requires a report. You must show up to the first lab having read the lab introduction, written up “lab zero”, and having read the description of lab 1. The final exam will have at least one question related to the lab.

Course Fee

\$50

Write a check to Cornell University or put \$50 cash in an envelope with your name printed clearly on it. Bring this to lecture on Thursday 1/28. This fee covers the text and the lab manual.

Office Hours

Thurston 102
The Conway room

You are encouraged to make use of our office hours. You will probably learn more if you struggle with a problem for a while before getting help. If you need remedial or tutorial help you might also get this in office hours from other students or from the course staff. You may also just come study in Thurston 102 which should never be locked. You are encouraged to sharpen your skills by helping others.

Monday 2-4 Ruina
Monday 6-8 Cabrera
Monday 8-9:30 Burns
Sunday 2-4 Liang
Sunday 7-9 Ganguly

Extra tutoring

$\pi\tau\Sigma$ (pi-tau-sigma) is offering tutoring on Mondays from 7:30-8:30 in Upson 211. Tutorial help can also be arranged through the engineering advising office in Olin Hall.

General Policies

Style of Work:

All work should be clearly presented and make sense on its own, without reference to the initial problem statement.

Homework:

You are encouraged to work with others on homework. You will learn more by explaining to and learning from other students. State clearly on the front of your homework, and in your homework text, what help you have received and from whom (including faculty, TAs, friends and books), no credit will be taken away from you for receiving help, but not clearly acknowledging help is a violation of the code of academic integrity.

Exams and Grading:

There will be 3 prelims with 3 problems each and a final exam with 5 problems. No notes, books, or calculators. We will provide a formula sheet at the exams.

Your semester’s homework grade will replace your lowest prelim grade if it helps (all 4 will be scaled to a common median before this replacement).

Your course grade will be based on a number scaled with these weights: Prelim/homework (50%)+ Final exam (35%)+ Lab (15%)+ TA bonus (TAs may add or subtract up to 5% in exceptional cases)

Academic Integrity You must not represent work as your own which is not your own, that is you must acknowledge (cite) all information you use to do your work. This includes clearly identifying, faculty, TAs, students, notes, or books which you used to do your work, and the nature of the help that you received. Students caught violating the code will be introduced to the academic integrity violations procedures and penalties. We strictly enforce these procedures.

If you feel that the code of academic integrity is not being maintained please let us know how. You may inform us anonymously and you need not name or implicate anyone.