

# Physics 231, Fall 2002

<http://www.pa.msu.edu/courses/phy231>

## GENERAL INFORMATION

### Instructors:

Scott Pratt

Section 1, 8:00 AM

BPS Bldg. #4208A

Office hrs.: Fri. 9:10-11:30 AM

355-9200, ext. 2016

pratts@pa.msu.edu

Wu-Ki Tung

Section 2, 9:10 AM and Section 3, 10:20 AM

BPS Bldg. #3236

Office hrs: Wed. 4:00-5:00 PM, Fri. 4:00-5:00 PM

355-9200, ext. 2133

wkt@pa.msu.edu

### Lectures:

MWF, Room 1410, Biomedical and Physical Sciences Building

MidTerm Exams are in same location

### Grading Scale:

4.0	90 - 100%
3.5	82 - 90%
3.0	75 - 82%
2.5	68 - 75%
2.0	61 - 67%
1.5	54 - 61%
1.0	47 - 54%

### Grading Weights:

Midterms	30% (15% each)
Final	25%
Homework(CAPA)	25%
In-Class Quizzes	20%

Grading scales are NEVER curved.

### Exams

- For each exam, each student should bring a #2 pencil and a calculator for numerical calculation.
- Each student may bring one sheet of summary notes (letter-size, double-sided, if necessary). There is no need to copy physical constants; they will be provided on the exam sheets.
- For Midterms and the Final, make-up exams will be given to those with valid, documented excuses.
- Dates for exams are given in the Calendar; detailed information on material covered and logistic arrangements for each exam will be announced one or two weeks before the exam. The Final Exam will be cumulative, but have somewhat more emphasis on the last 1/3 of the course.
- Grading scales for the exams are NEVER curved.

### Quizzes

- Each in-class quiz will consist of one multiple-choice problem. The problem will be on the material covered in the current lecture. Its purpose is to encourage prior preparation for the class, and close attention to the lecture. Each quiz will be scored as follows:  
Correct answer: 2 points, Incorrect answer: 1 point (for the effort)
- Quiz results will be posted after the bubble sheets are tallied by the University Scoring Office.
- No make-ups will be given for in-class quizzes. To allow for a few unavoidable absences (such as illness, varsity activities and other exigencies) the lowest four scores will be dropped at the end of the term in the final tally.

# CALENDAR

Week		Monday	Wednesday	Friday	Homework due 5PM Saturday
August	26	none	1.9	2.1 - 2.4	Units and Measurement
September	2	Labor Day	2.5 - 2.7	3.1 - 3.3	Motion in 1-dimension
	9	3.4 - 3.5	3.6	4.1 - 4.2	Motion in 2-d
	16	4.3 - 4.4	4.5 - 4.6	5.1 - 5.3	Newton's Laws, Force and Motion
	23	5.4 - 5.6	5.7 - 5.8	6.1 - 6.2	Kinetic Energy, Work and Power
	30	Midterm I	6.3 - 6.5	7.1 - 7.3	Momentum and Collisions
October	7	7.4 - 7.6	7.8 - 7.10	8.1 - 8.2	Circular Motion
	14	8.3 - 8.5	8.6 - 8.7	9.1 - 9.3	Rotation
	21	9.4 - 9.6	9.7 - 9.10	10.1 - 10.3	Solids, Liquids and Gases
	28	10.4 - 10.6	11.1 - 11.3	11.4 - 11.6	Temperature
November	4	Midterm II	11.7 - 11.9	12.1 - 12.3	Heat & Thermal Energy
	11	12.4 - 12.5	12.6 - 12.8	13.1 - 13.2	Thermodynamics
	18	13.3 - 13.5	13.6 - 13.7	Holiday	Thanksgiving
	25	13.8 - 13.10	13.11 - 13.13	14.1 - 14.3	Vibrations and Waves
December	2	14.4 - 14.7	14.8 - 14.11	Review	Sound
	9	FINAL: 8:00 PM Location: TBA			

## Help Room & On-line TA

Assistance on homework is offered in the Help Room, BPS Building, Room 1248. TAs and tutors will staff the room at the times below. The help-room staff will encourage an environment of cooperative learning. Questions on lectures as well as quiz and exam problems are also encouraged. It is equipped with many computers to work on LON-CAPA problems. An email address will also be manned for specific hours.

	BPS-1248	phy231help@pa.msu.edu
Monday	—	—
Tuesday	12:30PM-5:00PM	—
Wednesday	12:30PM-6:00PM	—
Thursday	9:00AM-6:00PM	7:30PM-9:30PM
Friday	9:00AM-7:00PM	—
Saturday	—	10:00AM-1:00PM

## LON-CAPA homework system

- Homework assignments are administered with the LON-CAPA system. Assignments are unique to each student.
- To view and answer problems, students should dial into: <http://msu.lon-capa.org>  
Use the MSU PILOT ID and password; and set the domain to "MSU".  
Once logged in, click the "select" button to enter the course area  
For help, dial into: <http://help.lon-capa.org>.
- Homework for each week is due on Saturday at 5:00 PM.  
There will be no extensions for homework assignments.
- Each homework problem is worth one point if answered correctly.  
The system allows for up to 20 tries for each problem.
- Homework bonus points:  
10% for getting the correct answer on the first try, 5% for the 2nd or 3rd try.  
The bonuses can boost homework grade above the full 25% (of the total grade).

## Honors Credit

Students in Physics 231 who are members of the Honors College can qualify for Honors in the course by achieving at least a 3.0 grade and by tutoring in the help room for a minimum of 3 hours per week. If you qualify and are interested, please sign up in class, or send a e-mail to Professor Pratt, [pratts@pa.msu.edu](mailto:pratts@pa.msu.edu), as soon as possible. Please give your name, PID and student number. The duty starts the second week, September 5.