

PHYS 3300: Modern Physics
Course Syllabus for Fall 2006, MWF 8:00-8:55 am

Instructor: Dr. Wayne Keith (793-3874, keith.wayne@mcm.edu)
Office Hours: S 110-C - MW 9-11, TR 9:30-11, W 1:30-2:30, and F 9-10
Web: <http://www.mcm.edu/~keith.wayne>
Text: *Modern Physics (4th)*, by P. Tipler and R. Llewellyn
Required: scientific calculator, paper, pencil
Prerequisites: PHYS 2520

Course Description: This is a required course for physics majors. This course is intended to introduce the student to the wide range of areas known collectively as Modern Physics. These areas include relativity theory, atomic and nuclear physics, quantum mechanics, and elementary particle physics.

Grading: 40% Homework: Assignments will be made in class and posted online. Homework will be due at 8 am on the date indicated. Also includes any graded activities conducted during class (quizzes, presentations, discussions, etc.)

40% exams (20% each): In-class exams.

20% Final exam: Not comprehensive, covers the final third of the course.

Attendance/Make up policy: Make-up exams will be given for excused absences only at the discretion of the instructor. Contacting the instructor via email or phone prior to missing class for any reason is strongly encouraged, even if it is for a school sponsored event.

Classroom Rules: Students are expected to be present and on-time for all class meetings. Excessive absences (more than 3 unexcused) may result in the student being dropped from the course. The instructor will answer all ringing cell phones. Late homework loses 10 points per day (not per class period).

Final notes: Class discussion is strongly encouraged; please feel free to ask questions, during class or outside of class, about anything that is not clear. Properly preparing for class by reading the textbook and keeping up with the homework is the most important factor in doing well in this course.

PHYS 3300 Fall 2006 Course Schedule

All dates are tentative and subject to change except **bold** dates.

Date	Lecture #	Tentative Topic
8/28	1	Ch 1-1
8/30	2	Ch 1-2
9/1	3	Ch 1-3
9/4	4	Ch 1-4
9/6	5	Ch 1-5
9/8	6	Ch 1-6
9/11	7	Ch 3-1
9/13	8	Ch 3-2
9/15	9	Ch 3-3
9/18	10	Ch 3-4
9/20		Test 1 review
9/22		Test 1
9/25	11	Ch 4-1
9/27	12	Ch 4-2
9/29	13	Ch 4-3
10/2	14	Ch 4-4
10/4	15	Ch 4-5
10/6	16	Ch 4-6
10/9	17	Ch 5-1
10/11	18	Ch 5-2
10/13		Homecoming (no class)
10/16	19	Ch 5-3
10/18	20	Ch 5-4
10/20	21	Ch 5-5
10/23	22	Ch 5-6
10/25	23	Ch 5-7
10/27		Test 2 review
10/30		Test 2
11/1	24	Ch 6-1
11/3	25	Ch 6-2
11/6	26	Ch 6-3
11/8	27	Ch 6-4
11/10	28	Ch 6-5
11/13	29	Ch 6-6
11/15	30	Ch 7-1
11/17	31	Ch 7-2
11/20	32	Ch 7-3
11/22		Thanksgiving break
11/24		Thanksgiving break
11/27	33	Ch 7-4
11/29	34	Ch 7-5
12/1	35	Ch 7-6
12/4	36	Ch 7-7
12/6	37	Ch 7-8
12/8		Test 3 review
12/11		Finals week – no class
12/13		Final Exam – Test 3 (Wednesday at 8:00am)