PHYSICS 2130: Physics for Science and Engineering Majors I
Classical Mechanics, Waves, and Thermodynamics
LECTURE SCHEDULE & SYLLABUS
Spring 2006

LECTURERS: Thomas Kvale (10am) & Alvin Compaan (11am)
OFFICES: MH 4023 (Kvale) & MH2017 (Compaan)
HOURS: to be announced PHONE: 530 - 2980 (Kvale) & 530 - 4906 (Compaan)
EMAIL: tjk@physics.utoledo.edu & adc@physics.utoledo.edu

COURSE WEB ADDRESS:
http://astro1.panet.utoledo.edu/~tkvale/phys2130/spring2006/P2130MAIN1-Spring2006.html
(Address *IS* case sensitive!!)


GRADE DISTRIBUTION: Midterm Exams: (3/4) ......................... 50%
Daily Quizzes: (38/46) ........................................ 10%
Homework: (13/15) .......................................... 10%
Lab: ............................................................ 10%
Final Exam: ................................................. 20%
TOTAL ......................................................... 100%

GRADES: Grades are based on your ability to solve problems and your demonstrated understanding of the meaning of physical concepts. There are no predetermined percentages of A's, B's, etc. Successful completion of the laboratory (at least a score of 18/30) is necessary for passing the course. If you are repeating this course within one year AND have received a letter grade in it (A-F, including +/-s) AND have earned a lab score of 24/30 or better, then you do not have to repeat the lab. However, please see the secretary in MH2017 so that your lab grade is transferred to this semester.

PREREQUISITES: The prerequisites for this course include Math 1850. Note that this is a calculus-based physics course. You will need to perform vector calculus in this course.

WITHDRAWALS, DROPS, and INCOMPLETES:
The last day for withdrawing from the course is MARCH 03, the end of the 8th week.
W grade: The grade of "W" is assigned for a course that the student has formally withdrawn from by the end of the 8th week.
IW grade: The grade of "IW" is given by the instructor for students who have not been attending class, have done essentially no work for the class, and have not officially withdrawn from the course. This grade is the prerogative of the instructor and must be reported by the end of the 10th week. If you do not intend to complete the course, it is YOUR responsibility to withdraw from the course.
IN grade: The grade of "IN" will be given only in truly exceptional circumstances which prevent the student from completing the course within the semester. An unexcused absence from an exam is NOT a valid reason for the Incomplete Grade.
HOMEWORK, DAILY QUIZZES, and MIDTERM EXAMS:

HOMEWORK (10%): The Homework problems are to be done ELECTRONICALLY through WileyPlus (previously called eGradePlus). Each homework set will be normalized to ten points when entered into the course gradebook. Your homework grade will be determined by your top 13 HW sets of the 15 possible HW sets. The HW sets will be due on Saturdays at 11pm, Eastern Time Zone. From past experience, do NOT wait until the last minute (or day) to enter in your homework.

DAILY QUIZZES (10%): There will be at least one problem multiple choice quiz each lecture day (MWF). These daily quizzes are graded on a 0-1 point scale. The quiz will be integrated into the lecture and cannot be made up if you miss that day's class. There are 46 lecture periods and your daily quiz score will be determined by your top 38 quiz scores out of the 46 daily quizzes. Electronic personal response systems "rf-clickers" from Turning Technologies are required for these quizzes.

MIDTERMS (50%) & FINAL EXAM (20%): The midterm exams will consist of about fifteen multiple choice questions and two problems. Your Exam score will be determined by your top three exam scores out of the four scheduled exams. Tuesdays are reserved for the exams for this course. Note that the Final Exam (comprehensive) is scheduled according to the Midterm Exam day (Tuesdays) and will be about double the length of a midterm exam. Classes generally will not meet on the Tuesdays in which the midterm exams are not scheduled. However, classes will be held on several non-exam Tuesdays in order to accommodate other university holidays throughout the semester or to maintain the syllabus time schedule. Check the course's webpage for precise information.

ALL EXAMS (INCLUDING THE MIDTERMS and FINAL EXAM) and TUESDAY LECTURES WILL BE IN DRISCOLL AUDITORIUM.

Do NOT come to McMaster Hall those days!!

<table>
<thead>
<tr>
<th>MIDTERM EXAM 1</th>
<th>TUESDAY, January 31</th>
<th>Chapters 01 - 06</th>
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<tr>
<td>MIDTERM EXAM 2</td>
<td>TUESDAY, February 21</td>
<td>Chapters 07 - 09</td>
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<td>MIDTERM EXAM 3</td>
<td>TUESDAY, March 21</td>
<td>Chapters 10 - 14</td>
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<td>MIDTERM EXAM 4</td>
<td>TUESDAY, April 18</td>
<td>Chapters 15 - 19</td>
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<tr>
<th>FINAL EXAM</th>
<th>KVALE</th>
<th>MONDAY, May 01</th>
<th>10:15a - 12:15p</th>
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<tr>
<td></td>
<td>COMPAAN</td>
<td>THURSDAY, May 04</td>
<td>10:15a - 12:15p</td>
<td>Chapters 01 - 20</td>
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PHYSICS 2130 LECTURE SCHEDULE & PROBLEM ASSIGNMENT
Spring Semester 2006

EVERY WEEK (Almost):
Monday: New material
Tuesday: Exam, no class, or new material if needed
Wednesday: New material
Thursday: Problem solving (Recitation breakout sections)
Friday: New material
Saturday: Homework Problems DUE at 11:00 pm