QUESTIONNAIRE

Please complete and turn in the following:

NAME (printed) __________________________________________

NAME (signed) __________________________________________

USC IDENTIFICATION NUMBER ______________________________

MAJOR __________________________________________________

MATH COURSES TAKEN IN LAST YEAR (INCLUDING THIS TERM)

________________________________________________________________

PHYSICS COURSES TAKEN IN LAST TWO YEARS (INCLUDING THIS TERM)

________________________________________________________________


NOTES

Physics 163L is the third course in the three-semester physics honors sequence. Math 226 (Calculus III) and Physics 162L or 152L are prerequisites. Math 245 (Differential Equations) is a corequisite. The course will begin with a discussion of the wave properties of light (interference and diffraction), then will introduce the quantum theory of matter. Topics will include Bohr’s old quantum theory; the Schrödinger equation and its application to model potentials and the hydrogenic atom; electron spin, the Pauli Exclusion Principle, and multi-electron atoms; and (as time allows) quantum statistics, with applications to laser physics.

TEXTS:
Hecht: Schaum’s Outline of Optics, McGraw Hill – OPTIONAL
Physics 153L Laboratory Manual (online)

ONLINE COURSE SUPPORT:
The PHYS 163 home page is at https://blackboard.usc.edu.
Under the home page you will find a copy of this lecture syllabus; scanned images of solutions for completed homework; copies of examinations from previous semesters; and Real Player webcasts for help with the problem sets.

HOMEWORK:
Homework will be assigned every ten days to two weeks. Help with challenging aspects of the homework will be provided online through a series of Real Player webcasts. It makes sense to try working problems first before turning to a webcast for clarification of specific points.
Graded homework will be returned in class. Images of homework solutions will be posted online.
Each homework set has a target date. If an assignment is turned in to the dropbox in STU 300 before 9 AM on the day following the target date, it is considered on-time. If the assignment is turned in after the target date, “late days” are assessed.

**Everyone is allowed up to EIGHT late days over the course of the semester with no point penalty.** You may choose to use late days on homework sets as you see fit. Weekends and holidays do not count toward the late-day total. For example, the first homework assignment has a target date of Wednesday, January 27; you may turn in that assignment “on-time” as late as 9 AM on Thursday, January 28.

Your late day total will be updated online whenever you turn in an assignment. Once the eighth day is reached, any subsequent assignment must be turned in by the target date in order to receive credit. (If you turn in an assignment that pushes your late-day total to exactly nine days, that one assignment will receive half-credit. Any assignment after that must be turned in by the target date.)

**LABORATORY:**

**THERE WILL BE NO LAB MEETINGS DURING WEEK 1 (January 11–15).** Labs begin in the second week. If you miss the first meeting, your lab slot may be turned over to another student.

Physics is an experimental science, and the laboratory is an important part of any physics course. In Physics 163 (and 153), the laboratory is run on a separate basis from the lecture portion of the course. The procedures to be followed in the lab will be explained by the lab instructors at the first meeting.

The laboratory grade determines 20% of the final course grade. If you miss a laboratory period, **you must make arrangements with your TA to make up the missing experiment.** Questions concerning the laboratory should be referred to the laboratory director Dr. Gökhan Esirgen (esirgen@usc.edu), KAP B–19.

**EXAMINATIONS:**

There will be two midterm exams and a final exam. The midterm exams will be given on Thursday, **February 18** and Tuesday, **March 29.** The final exam will be either a pledged take–home or an in–class test resembling the midterms. If the final exam is given in–class, it will be given Wednesday, **May 11, from 2–5 PM.** The course grade will be based upon laboratory and classroom grades – 20% from the lab and 80% from the classroom.

The classroom grade will be based upon the following distribution of points:

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<thead>
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<tbody>
<tr>
<td>Midterms</td>
<td>2</td>
<td>250=500</td>
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<tr>
<td>Homework</td>
<td></td>
<td>200</td>
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<tr>
<td>Final exam</td>
<td></td>
<td>300</td>
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<td><strong>Total:</strong></td>
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<td><strong>1000</strong></td>
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Please seek assistance immediately if you are having difficulty with the course! I am available for discussion at most times during the week if an appointment is scheduled in advance.

ACADEMIC INTEGRITY:

Homework assignments may be done in collaboration with other students, and help is also available as noted above. Under no circumstances should students seek out homework solutions from alumni of PHYS 163 or from any other printed or online solution sets/manuals. Failure to abide by this rule will result in an automatic zero for the assignment and a report to the Office for Academic Integrity.

STUDENTS WITH DISABILITIES:

Students who need to request accommodations based on a disability are required to register each semester with the Office of Disability Services and Programs (DSP). In addition a letter of verification to the instructor from DSP is needed for the semester you are enrolled in this course. If you have any questions concerning this procedure, please contact the instructor and DSP at GFS 120, 740–0776.

IMPORTANT DATES

Midterm Exam #1 – Thursday, February 18
Midterm Exam #2 – Tuesday, March 29
Last day to drop with a “W” – Friday, April 8
Last day of class – Thursday, April 28
Final Exam (if in-class) – Wednesday, May 11, 2–5 PM