QUESTIONNAIRE

Please complete and turn in the following:

NAME (printed) _______________________________________

NAME (signed) _______________________________________

IDENTIFICATION NUMBER ________________________________

MAJOR ________________________________________________

MATH COURSES TAKEN IN 2018 AND 2019 (INCLUDING THIS TERM)

_____________________________________________________

PHYSICS COURSES TAKEN IN 2018 AND 2019 (INCLUDING THIS TERM)

_____________________________________________________
PHYSICS 304 – CLASSICAL MECHANICS
FALL 2019

Prof. Gene Bickers
Office: ACB 439H
Email: bickers@usc.edu
Office hours: MW 4–6 PM

Lecture hours: TuTh 8–9:50 AM
Lecture location: KDC 240 (Kaufman Dance Center)

NOTES

Physics 304 is an intermediate-level course in classical mechanics, the study of the dynamics of macroscopic objects, which can range in size from a few microns to the scale of planets and stars. The USC prerequisites are Physics 151 or 161 and Math 245. We’ll make heavy use of concepts from single-variable and multivariable calculus, as well as differential equations, right from the start. The goal is to build on ideas from introductory mechanics while developing a range of new math skills. The topics include free and driven oscillations, the calculus of variations, Lagrangian mechanics for free and constrained systems, Hamiltonian mechanics, rotational dynamics, and noninertial reference frames.

TEXTS:

ONLINE COURSE SUPPORT:
The PHYS 304 home page is at https://blackboard.usc.edu.
Under the home page you’ll find a copy of this lecture syllabus; homework assignments and solutions; and background material to prepare for exams.

HOMEWORK:
Homework will be assigned every ten days or so. You’re encouraged to collaborate on solving the homework problems, and it’s possible to get an arbitrary amount of help from me. Graded homework will be returned in class, and solutions will be posted online.

Each homework set has a target date. If an assignment is turned in to ACB 439H 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 FIVE 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 Friday, September 6; you may turn in that assignment “on-time” as late as 9 AM on Monday, September 9.

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

EXAMINATIONS:
There will be two midterm exams and a final exam. The midterm exams will be given on **Thursday, October 10**, and **Thursday, November 14**. The final exam is scheduled for **Tuesday, December 17**, at 4:30–7:30 PM. Note the final exam is three hours in length.

The grade will be based on the following distribution of points:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterms</td>
<td>2 × 25% = 50%</td>
</tr>
<tr>
<td>Homework</td>
<td>20%</td>
</tr>
<tr>
<td>Final exam</td>
<td>30%</td>
</tr>
</tbody>
</table>

ACADEMIC INTEGRITY:
Homework assignments may be done in collaboration with other students, and help is always available. **Under no circumstances should you seek out homework solutions from alumni of Physics 304 or from any 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, October 10
- Midterm Exam #2 – Thursday, November 14
- Last day to drop with a “W” – Friday, November 15
- Last day of class – Thursday, December 5
- Final Exam – Tuesday, December 17, 4:30–7:30 PM