Physics 218 Syllabus

1 Statement of Purpose

The goal of this course is familiarize students with basic classical physics. I believe a good lecture is a conversation. Students will be expected to give their opinions and on occasion be asked to solve problems for the class. Topics will include 1 and 2 Dimensional Motion, Newton’s laws, Conservation of Momentum, Work Energy Theorem, Rotational Motion, Conservation of Angular momentum, and Harmonic Motion. By the end of the course students should have an appreciation for physical theory and be able to apply it to the world around them.

2 Instructors

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3 Text

Tentative Schedule

Week 1: Math Review
Week 2: 1 and 2 Dimensional Motion
Week 3: Newton’s Laws
Test 1: June 15th
Week 4: Statics
Week 5: Conservation of Momentum
Test 1: June 29th
Week 6: Work Energy Theorem
Week 7: Potential Energy
Week 8: Rotational Motion
Test 2: July 20th
Week 9: Conservation of Angular Momentum
Week 10: Harmonic Motion
Final: August 7th

4 Grading

Final Grades will be assessed at the end of the course based on the overall grade distribution. Statistics for each test will be made available on E-Learning. Two points extra credit will be available for each test for making a problem for the exam. One problem from student problems will be on the exam. Five points extra credit will be available on the final for completing a bonus project. The project will be to take a scene from a movie or a YouTube video and use the tools learned during the semester to explain why it is physically impossible.

Tests 25% Quizzes 25% Lab 15% Final 35%

5 Additional Course Policies

I will write lecture notes that I will make available on E-Learning. They will be a broad overview of what we do in class each day, but they will not be a substitute for coming to lecture. I will have weekly office hours that I will establish after the first day of class. Be sure to read the book before coming to lecture. Reading early and working problems is your best bet to getting an A. You must pass the lab in order to pass the course. Collaboration is encouraged (except on exams).

6 Americans with Disabilities Act

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with
disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Room B118 of Cain Hall, or call 979-845-1637.

7 Aggie Honor Code

An Aggie does not lie, cheat, steal or tolerate those who do.” All work for this course will be governed by the the Aggie Honor Code. To familiarize yourself with these rules refer to the Honor Council Rules and Procedures on the web at the following location: www.tamu.edu/aggiehonor.