

**Instructor: Chetan Dhital**

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**Office:** H260 F (Academic building)

**Office hours:** Tuesday/Thursday 12:00 pm – 1:00 pm. Wednesday 10:00 am-12:00 pm. All other times by appointment. **Classroom:** Academic Building 255

**TEXTBOOK & REQUIRED SUPPLIES:**

- Physics I Laboratory Manual: Mechanics, Waves, and Heat 12<sup>th</sup> ed., Michael Thackston (Tavener Publishing Company, 2018). ISBN: 978-1-64220-010-2
- A basic scientific calculator (**cell phones can not be replacement for calculator**).

**CO-REQUISITE:** Physics 2211

**LEARNING OUTCOMES:**

- Explain and interpret physical situations as stated in a word problem.
- Identify the physical laws appropriate to a given physical situation.
- Predict the behavior of representative physical systems using math and physics laws as tool.
- Interpret the outcome of a physical system.
- Use various types of electronic data collection tools for the experimental investigation of physical laws.
- Represent physical systems in multiple representations mathematically, pictorially, graphically.
- Understand uncertainties in measurements and error analysis.

**COURSE MATERIALS AND INFORMATION**

All course materials and information are accessible through the Desire2Learn (D2L) account. It is very important that you check your Desire2Learn account regularly. <https://kennesaw.view.usg.edu>. There will be some pre lab questions that will be posted on D2L. You are supposed to turn in those questions before starting the experiment.

**CLASS TIME** Wednesday 12:20 pm – 2:15 pm

**ATTENDANCE POLICY:**

You must attend all the labs. There **will not be any make up labs**. If you are unable to attend a lab or if you do not return your prelab question, you will get a zero grade for that lab. Students are solely responsible for managing their enrollment status in a class; nonattendance does not constitute a withdrawal.

**GRADING:**

There will be at least 10 lab classes. The lowest lab grade will be dropped in calculating your final overall lab grade. There will not be any exams. You will have one week to complete the lab. Late reports will be accepted with a 50% (per week) penalty.

Grades will not be mailed to you at the end of the semester. Your course grades will be available online. Grades based on the overall computed score for this course will be assigned using the following University approved standard:

A	B	C	D	F
90% -	80% - 89%	70% - 79%	60% - 69%	< 60%

**LABORATORIES:**

1. Free Fall Acceleration
2. Atwood's Machine
3. Friction
4. Uniform Circular Motion
5. Conservation of Energy and Momentum
6. Rotation
7. Equilibrium
8. Simple Harmonic Motion
9. Resonance
10. Archimedes' Principle
11. Thermal Properties

**Physics 221L**  
**Spring 2019**



**ACADEMIC DISHONESTY POLICY:**

Every Kennesaw State University student is responsible for upholding the provisions of the Student Code of Conduct, as published in the Undergraduate and Graduate Catalogs. The Student Code of Conduct addresses the university's policy on academic honesty, including provisions regarding plagiarism and cheating, unauthorized access to university materials, misrepresentation/falsification of university records or academic work, malicious/intentional misuse of computer facilities and/or services, and misuse of student identification cards. Incidents of alleged academic misconduct will be handled through the established procedures of the Department of Student Conduct and Academic Integrity (SCAI), which includes either an "informal" resolution by a faculty member, resulting in a grade adjustment, or a formal hearing procedure, which may subject a student to the Code of Conduct's minimum one semester suspension requirement. See also <http://www.kennesaw.edu/scai/content/ksu-student-codeconduct>. I take issues of academic honesty very seriously. **Anyone caught cheating on an exam will face disciplinary action under the academic dishonesty policy.**

**STUDENT RESPONSIBILITIES:**

- Students are responsible for completing the assignments in a timely manner.
- Students are responsible for seeking additional help with the material when you find yourself struggling with any portion of the material.
- Students are responsible for checking their university email and reacting on updates in a timely manner.
- Students are strongly encouraged to arrive on time and stay until the end of class. Disruptions or distracting behavior are not tolerated. **Cellular phones or any communication devices need to be put away on silent mode.**
- Students should maintain a high level of attendance to maximize their learning outcome.
- Students need to be aware of the university policies on withdrawals and incompletes.  
The withdraw deadline is February 27, 2019. This is the last opportunity to get out of the class with a **W** grade..

**DISABILITY AND ACCOMODATIONS:**

Any student with a documented disability or medical condition requiring accommodations must contact the instructor immediately and present a written verification from the KSU Student Disability Services ([http://www.kennesaw.edu/stu\\_dev/dsss/welcome.html](http://www.kennesaw.edu/stu_dev/dsss/welcome.html)). All discussions are confidential.

**USEFUL RESOURCES:**

1. <http://www.physicsclassroom.com/>
2. <http://www.khanacademy.org/science/physics/#science/physics?k>
3. [www.hyperphysics.edu](http://www.hyperphysics.edu)

**Note:**

***This is a tentative syllabus. The Instructor reserves the right to change the present syllabus to better fit the pedagogical needs of the class, and it is the student's responsibility to stay up to date with such changes.***

# Lab Schedule

Physics  
2211L



Spring 2019

Lab	Date	Name of Experiment
1	01/06/2019	Free Fall
2	01/30/2019	Atwood's machine
3	02/06/2019	Friction
4	02/13/2019	Centripetal force
5	02/20/2019	Conservation of energy and momentum
6	02/27/2019	Rotations
7	03/06/2019	Equilibrium
8	03/13/2019	Simple Harmonic Motion
9	03/20/2019	Standing Waves and Resonance
10/11	03/27/2019	Thermal Properties