Labs begin the week of January 8 - 12

**MINIMUM REQUIREMENTS:**
You must complete at least 7 experiments. Failure to do so will result in a grade of ZERO for the lab. (Since we take the best 8 out of 10 worksheet grades—see #10 on page 3--if you ONLY complete 7 experiments, one of your worksheet grades will be a zero.)

**Laboratory Manual:**
UGA Dept. of Physics and Astronomy (Hayden-McNeil Publishing).

If you are retaking the course within a five-year period, and you are happy with the final lab grade you received previously, you may use that lab grade again and you do not have to attend the lab. You do have to remain registered for the lab, but you do not have to attend. Please notify the Lab Coordinator (see contact information below) as soon as possible if you want to exercise this option. (Please do so **BEFORE THE END OF THE DROP/ADD PERIOD** so that your seat may be made available to another student.) If you would like to improve your grade, or are taking the course again after five years, you must do **ALL** of the required lab exercises again and take the lab exam.

**Physics 1111L /1211L/1311L Lab Syllabus**
**Spring 2018**
Room 314—Physics and Room 116—Science Learning Center

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Experiment</th>
<th>Exercise #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan. 4 - 5</td>
<td>NO LAB</td>
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<tr>
<td>2</td>
<td>Jan. 8 - 12</td>
<td>First Diagnostic Test</td>
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<td>3</td>
<td>Jan. 15 - 19</td>
<td>NO LAB—MLK Day</td>
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<td>4</td>
<td>Jan. 22 - 26</td>
<td>Introductory Laboratory Exercise</td>
<td>1</td>
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<tr>
<td>5</td>
<td>Jan. 29 – Feb. 2</td>
<td>Motion With Constant Acceleration</td>
<td>2</td>
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<tr>
<td>6</td>
<td>Feb. 5 - 9</td>
<td>Equilibrium of a Point Mass</td>
<td>3</td>
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<td>7</td>
<td>Fe. 12 - 16</td>
<td>Newton’s 2nd Law</td>
<td>4</td>
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<tr>
<td>8</td>
<td>Feb. 19 - 23</td>
<td>Uniform Circular Motion</td>
<td>5</td>
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<tr>
<td>9</td>
<td>Feb. 26 – March 2</td>
<td>Ballistic Pendulum</td>
<td>7</td>
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<td>10</td>
<td>March 5 - 9</td>
<td>Collisions (print experiment and bring to lab)</td>
<td>Printout</td>
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<tr>
<td>11</td>
<td>March 12 - 16</td>
<td>NO LAB—Spring Break</td>
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<tr>
<td>12</td>
<td>March 19 - 23</td>
<td>Static Equilibrium (print experiment and bring to lab)</td>
<td>Printout</td>
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<tr>
<td>13</td>
<td>March 26 - 30</td>
<td>Simple Harmonic Motion</td>
<td>9</td>
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<td>14</td>
<td>April 2 - 6</td>
<td>Standing Waves in a String</td>
<td>10</td>
</tr>
<tr>
<td>15</td>
<td>April 9 - 13</td>
<td>Lab Exams—Attend at your regular day and time.</td>
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<tr>
<td>16</td>
<td>April 16 - 20</td>
<td>Second Diagnostic Test/Lab Exam Review</td>
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<tr>
<td>17</td>
<td>April 23 - 27</td>
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<tr>
<td>18</td>
<td>April 30 – May 3</td>
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You may never attend a lab section other than the one for which you registered unless you have permission from the Laboratory Coordinator (contact information below). Your TA cannot authorize this.

**Laboratory Coordinator:** Tom Barnello  Room 310 Physics, 706-542-2903, tjbar@physast.uga.edu
(Please include which course you are taking and the day and time of your lab in your correspondence.) We welcome any comments or suggestions on the lab course evaluation for improving the laboratory course. Thank you.
Please note: The rules below and on the next pages supersede anything your Teaching Assistant (TA) tells you to the contrary. If that happens, please bring it to the attention of your TA, or ask the Laboratory Coordinator for clarification.

1. **Preparation:** You must read through the experiment and also relevant material in the textbook before attending the lab. The more prepared you are the better, especially in those cases where the lab gets ahead of the lecture.

2. The only things you need to bring to the lab are your lab manual, a calculator, and a pencil. **If you bring a completed worksheet from another student into the lab, or even a worksheet of your own from a previous semester, you will receive a zero for that experiment and that zero will count in your final average.** (Please put your name on your calculator in case it gets lost.)

3. **Sign In:** You must sign in when you enter the lab. A sign-in sheet will be located on the lab bench at the front of the room. *Not signing in may result in a grade penalty for that experiment.*

4. **Late Policy:** At the start of the lab the TA will outline important procedures and safety guidelines. *Please do not be late!* The labs will start promptly at the scheduled time. **Approximately** 10 minutes after that, the door to the lab room will be locked and a sign will be posted on the door, which says, “You have arrived too late to do the experiment.” If the door is locked and/or that sign is posted, you have missed the lab and will receive a zero for that experiment. **PLEASE NOTE:** The late policy is intended for an occasional late arrival. It does not mean you can show up ten minutes late to every lab. If the TA sees that you are abusing the late policy, he or she may deny you entry.

5. After the introductory lecture, you will perform the experiment. You will usually perform the experiment with a lab partner, but **you must answer all questions on the worksheet IN YOUR OWN WORDS. Not doing so will result in a grade penalty.**

6. **Clean Up and Check Out:** When you have completed the experiment, please clean up your station! Remove all trash and follow the guidelines given by your TA or written on the front board for dismantling the equipment to make it ready for the next class. After you have cleaned up, call the TA over to check you out. Write your name and your lab partner’s name at the top of the worksheet and give it to the TA. If you have handed in a worksheet and cleaned up your station properly, the TA will put a check next to your name on the sign-in sheet. **Do not leave the lab room before your TA has checked-off your name on the sign-in sheet. Leaving the lab without checking out will result in a grade penalty.**

7. At the next lab meeting the TA will hand back the graded worksheet from the previous experiment. **This is the time to ask the TA to correct any mistakes he or she has made in grading—NOT at the end of the semester when you realize that you need a few more points to raise your grade level.** All such requests at the end of the semester will be denied.

8. **Please keep all graded worksheets on file.** In the event that a grade is not recorded properly, you may be asked to bring in the graded report as proof that you completed the lab.

9. **You will receive a zero for each experiment that you do not perform.** There are no make-up labs.
10. **Laboratory Grade:** Your overall lab grade will be a combination of:
   
a. **Worksheet Grade:** The average of the best 8 out of 10 grades you receive on your lab
   worksheets = 70% of the lab grade. (If you have only completed the minimum number of 7
   experiments, then one worksheet grade will be a zero. **If you have completed less than 7
   experiments, your entire lab grade will be a zero, not just your Worksheet grade.**)

   b. **Lab Exam Grade** = 30% of the lab grade.

   c. **Grade Web Site**—you may view your grades online at any time by going to

       [https://www.physast.uga.edu/student](https://www.physast.uga.edu/student)

   **Note:** Please check your online grades on a regular basis. Every once in a while a TA may
   make a mistake in entering a grade. If you find an error, please tell your TA as soon as
   possible.

11. **Withdrawals:** All withdrawals are done online through Athena. The lecture and lab are linked
    together as a 4-credit course. This means that you cannot withdraw from one without withdrawing
    from the other. **If you withdraw, you can no longer attend the lab and you will have to repeat
    ALL of the experiments again if you retake the course, no matter how many you have
    completed at the time of your withdrawal.**

12. **Missing an experiment:** Keep in mind that there are many lab sections and that, on average, 2
    students miss lab in each section. That means many students are absent each week we have lab
    which is why you **cannot simply attend another lab section later in the week if you miss a lab**
    (for the exception to that rule see section b. below) and why we operate under the rules given below.
    **Please read these sections carefully—then read them again!**

    There are all sorts of reasons that you might have for missing an experiment. Some reasons may be
    considered “legitimate” excuses and some may not. What may seem like a legitimate excuse to you
    may not be considered one by us. What constitutes a legitimate excuse will be at the discretion of
    the Laboratory Coordinator, but includes such things as illness requiring a visit to the doctor;
    university-related travel; etc.

    Missing an experiment because your car broke down, the bus ran late, the power went out and your
    alarm did not wake you, you had to study for a test, you were ill but did not see a doctor or go to the
    Health Center, etc., are NOT considered legitimate excuses.

    **If you miss an experiment with a legitimate excuse, ALWAYS get documentation to prove it**—a note on official letterhead, signed by an appropriate authority: doctor, professor, etc. Even
    missing an experiment to attend a “family-related event,” must be proven by some form of
    documentation: a wedding invitation, funeral notice, etc. (Most funeral homes will provide this
documentation.) You may have to provide that documentation to the Lab Coordinator in the event
    that you miss more than two experiments (see section b. below). If you know in advance that you
    are going to miss a lab, but you are not sure if the reason will be considered a legitimate excuse,
    please contact the Laboratory Coordinator. **All documentation for legitimate excuses should be
    given to the Laboratory Coordinator—NOT your TA.**
**CAUTION:** You must be very careful about missing experiments without legitimate excuses. (See sections a and b below.) In other words, leave open the option of missing an experiment for “life’s unforeseen circumstances.”

a.) Missing One or Two Experiments: You will not be penalized since we only take the best 8 of 10 worksheet grades. **If you miss two, however, and both misses are without legitimate excuses, then you will get a zero for a third missed lab, even if you miss the third lab with a legitimate excuse, and you will get a zero for your entire lab grade if you miss a fourth experiment.**

b.) Missing Three Experiments: **Only ONE of the misses can be without a legitimate excuse.** If two of the misses are without legitimate excuses, no matter in which order they occur, you will get a zero for the third miss. If you miss a third experiment or know in advance that you are going to miss a third experiment **AND at least two of the three are missed with legitimate excuses, contact the Lab Coordinator immediately.** You may be able to attend a different lab section while that experiment is being performed to complete the experiment.

c.) If you complete less than 7 experiments your entire lab grade will be zero.

13. **Lab Exam**

a.) The lab exams are given in the lab during the week shown on the schedule. **THEY ARE NOT GIVEN DURING THE WEEK OF FINAL EXAMS.**

b.) **Missing the Lab Exam:** If you miss the lab exam contact the Lab Coordinator IMMEDIATELY—the same day if possible! The Lab Coordinator will decide if you will be allowed to do a make-up exam possibly in another lab section during the dates of the lab exam. **If you miss the lab exam without a legitimate excuse, you may still be able to do a make-up exam, but you will be penalized.**