Syllabus, Lab Rules, Tutorial For Writing Lab Reports

Part A: Syllabus

This laboratory is an integral part of the Physics 51 course. It is important to note that the experiments covered in this laboratory do not necessarily follow the topics presented in Physics 51 lectures. The goal of the labs is to introduce to new concepts in physics through performing experiments and analyzing results. Each experiment is self-sufficient, and prior knowledge of the topic is not required. You will be asked to perform sets of experiments and write down your findings and conclusions in the lab report. It is not necessary that your conclusions are correct (you are still learning), but it is important that you follow the rules for writing lab reports, presenting data, and comparing the results.

Your lab instructor is there to help you perform labs safely and efficiently, to teach writing proper lab reports, to explain some physics topics if needed, but the role of the instructor is not to tell you everything about the lab you are performing. This is something you have to try to figure out with help of the manual and your lab partner. So, be ready to put on your thinking cap when coming to the lab!

The schedule of experiments will be given at the beginning of the semester.

- **Attendance, Drops**
  Each student must officially register in one laboratory section, and attend regularly only that section. There are 12 experiments and each student is required to do 11 of them (thus each student is allowed to miss one lab during the semester). The 12th lab will count as bonus points. A student can miss one additional lab only due to legitimate reasons determined by SJSU policies (military order, death of immediate family member, divorce, natural disaster, personal health or serious family illness, pregnancy related issues). If a student misses a lab for the second time due to any other reasons, s/he will receive zero points for the whole lab report for that lab. **No makeup labs will be given! You cannot makeup the lab in another section or at the end of the semester!** Coming to the lab 15 minutes late, or leaving 15 minutes earlier without permission will be treated as full absence. Any additional absences (three or more) will automatically result in a 'WU' grade for the whole 51 course. If a student decides to drop Physics 51 lab, he/she must drop both lecture and the lab. It is the policy of the Physics Department that the Physics 51 lab and the Physics 51 lecture must be taken during the same semester.

- **Laboratory Report**
  Each student is expected to write an individual lab report, and submit it to the lab instructor for grading upon completion of the work in each lab session. No work should be done outside the lab. All 12 lab reports should be brief, and should be organized as described below in Part C; excessive wordiness will be penalized with a poor grade. Each report must also include answers to any lab-specific questions for that week.
  Each of the 12 lab reports will be given a grade of P+, P (Pass), P-, or U ( Unsatisfactory). Any reports with a U grade must be corrected and resubmitted until they meet the instructor's standard. Corrections required for Experiment #N are to be completed before the student is allowed to start work on Experiment #(N+2). After correcting the U-graded report, the new grade will be a P-.

- **Laboratory Quizzes**
  There will be three 5-10-minutes quizzes in the lab. Check the calendar for the quiz dates. The quizzes will be given at the beginning of the lab sessions. Each quiz will have 5 questions and cover the experiments performed before the date of the quiz. These quizzes will be open Lab Reports (your own work), but closed Lab Manual.
• **Semester Grade**
At the end of the semester the lab instructor will report to the lecture instructors a *numerical grade* for each student based on 15% quizzes and 85% reports. For the report grades, P+ is worth 100%, P is worth 85%, and P- is worth 70%. Following is the criteria for passing the lab:

- Having received an overall *numerical grade* of at least 70%.
- Having received a P+, P, or P- for all labs.

The numerical laboratory grade, along will possible additional description of a student performance, will be reported to the lecture instructor for his/her use in deciding the semester grade.

• **Laboratory Manual and Supplies**
The laboratory manual is sold by the Physics Club during the first week of classes and is located in the Science Building Room 239. You will need to purchase your lab manual before the 1st experiment. Students are required to bring their electronic calculators and standard size paper (8.5"x11") for the report.

• **You are expected to work safely and to clean up your work area before leaving.**

• **Emergencies and Evacuation Procedure:** If an alarm sounds, please quickly collect all of your belongings and leave the building by the nearest stairwell. Do not take the elevator.

---

**University Policies**

• **Academic integrity**
Students should know that the University's [Academic Integrity Policy](http://www.sa.sjsu.edu/download/judicial_affairs/Academic_Integrity_Policy_S07-2.pdf) is available at [here](http://www.sa.sjsu.edu/download/judicial_affairs/Academic_Integrity_Policy_S07-2.pdf). Your own commitment to learning, as evidenced by your enrollment at San Jose State University and the University’s integrity policy, require you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The website for [Student Conduct and Ethical Development](http://www.sa.sjsu.edu/judicial_affairs/index.html) is available at [here](http://www.sa.sjsu.edu/judicial_affairs/index.html).

Instances of academic dishonesty will not be tolerated. Cheating on exams or plagiarism (presenting the work of another as your own, or the use of another person’s ideas without giving proper credit) will result in a failing grade and sanctions by the University. For this class, all assignments are to be completed by the individual student unless otherwise specified. If you would like to include in your assignment any material you have submitted, or plan to submit for another class, please note that SJSU’s Academic Policy F06-1 requires approval of instructors.

• **Campus Policy in Compliance with the American Disabilities Act**
If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities requesting accommodations must register with the AEC (Accessible Education Center) to establish a record of their disability.
Part B: Lab Rules

- No food or drinks are allowed in the lab at any time.
- Perform all experiments in a safe manner. If you are not sure what to do (after reading the manual), ask the instructor for assistance.
- Use of cellular phones, tablets, personal computers, headphones and other electronic equipment not related to the lab assignment is strictly prohibited. Those electronic devices are to be stowed away during the lab.
- Lab computers are to be used only for lab activity. Personal computing is strictly prohibited.
<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
<td>Pre-Instruction</td>
<td>Pre-Instruction</td>
<td>First Day of Instruction</td>
</tr>
<tr>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td>1</td>
</tr>
<tr>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>11</td>
</tr>
<tr>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
</tr>
<tr>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
</tr>
</tbody>
</table>

**SPRING 2019 Calendar**

- **MLK Jr. Day (21)**
- **Campus Closed (28)**
- **First Day of Instruction (24)**
- **Spring Break (12)**
- **Study Conference Day (15)**
- **Finals (22)**
- **Last Day of Instruction (14)**
- **Memorial Day (27)**
- **Finals (21)**
- **Graduation (24)**
- **No Classes (23)**
- **Finals Day (22)**
- **Finals Make-Up (23)**