113-04 Color and Images

Jeff Stapleton
Color and Images
PHY 113
M 8-10, LND 201

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Office Hours: By appointment.

PHY 113 is a one credit hour lab course to be taken concurrently with PHY 112. The topics covered in the lab sometimes complement the lecture, but some topics are independent material. This course can be used for partial fulfillment of your Core Science requirements.

Schedule (subject to change)

Week
1. Plane Mirror
2. Pendulum
3. Curved Mirror
4. Refraction
5. Lenses (Formal)
6. Midterm Exam
7. Photography Project Instructions
8. Color Printing
9. Model of the Eye (Formal)
10. Telescope
11. Double Slit Interference
12. Diffraction and Spectra
13. Make-up Lab (Max. of one)
14. Final Exam

Grading: Semester grades will be based on:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab Memos (nine)</td>
<td>30</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10</td>
</tr>
<tr>
<td>Extended lab Reports (one)</td>
<td>50</td>
</tr>
<tr>
<td>Photography Project</td>
<td>100</td>
</tr>
<tr>
<td>Two Exams</td>
<td>100</td>
</tr>
<tr>
<td>Total</td>
<td>620 + Quizzes</td>
</tr>
</tbody>
</table>

Grades will be assigned on the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>87-89 B+</th>
<th>77-79 C+</th>
<th>67-69 D+</th>
</tr>
</thead>
<tbody>
<tr>
<td>93-100 A</td>
<td>83-86 B</td>
<td>73-76 C</td>
<td>63-66 D</td>
</tr>
<tr>
<td>90-92 A-</td>
<td>80-82 B-</td>
<td>70-72 C-</td>
<td>60-62 D-</td>
</tr>
</tbody>
</table>

Lab Exams: You are expected to understand the concepts behind each lab, as well as the procedures used. You must also understand any graphs used in the labs. Both exams will be multiple choice and closed book.