THE UNIVERSITY OF TENNESSEE
Department of Physics and Astronomy

ASTRONOMY 161 LAB

Fall 2011
Monday: 12:20PM-2:15PM [Sec-001]
Monday: 2:30PM-4:25PM [Sec-007]
NIELSEN 507

Instructor: Mark Foerster
Office: Nielsen 603
Hours: Fri 1:15PM-2:25PM in Nielsen 201 and by appointment.
Email: mfoerste@utk.edu

Text:
A Laboratory Textbook for Introductory Astronomy (7th Edition) - Kermit E. Duckett

Website:
http://astrolab.phys.utk.edu

Required Materials:
For each lab you are to bring your lab manual, pencils and a calculator.
Also, you must read the lab exercise before coming to class.

Attendance:
Attendance each week is mandatory. Missing more than two (2) lab
meetings will result in an Incomplete for the lab section and the course. This is
departmental policy and I am obligated to uphold it without exception.
In case of medical sickness, doctor's report would need to be obtained to
secure a non-absenteeism. In all other cases, only prior permission will
unmark absenteeism.

Night Viewings:
Students in all sections of Astronomy 161 are required to complete T-Lab 1 and T-Lab 2. The two
labs may be done on separate nights, but it is recommended that they be done in one night-time
observation session (T-Lab 1 during the first session of one night and T-Lab 2 during the second
session of the same night). If you are unable to complete both observations you will receive an
Incomplete for the course.

Lab Exercises:
Lab exercises are to be turned in at the end of the lab session.
Failure to do so will mean a zero for that lab session.
Grading:
In-class participation, the Lab exercise in-class and occasional surprise quizzes - 70%
Night Observation on the Roof – T-1 and T-2 - 20%
Lab Final Exam - 10%
**15 extra points** for those who complete T-1 and T-2 in the first 6 observation nights available.

Grading Scale:
Same as for the lectures: A ≥ 90, B+ ≥ 85, B ≥ 80, C+ ≥ 75, C ≥ 70, D ≥ 60, and F < 60.

T-Labs will begin Tuesday, September 6th, at night on the roof.
Please, sign up on the sheets outside room 507 and do not forget to write T-1 and/or T-2!
Students who do not complete both T-Labs will receive an F in the lab and an I in the course.

Plagiarism and the Honor Statement:
Academic dishonesty/plagiarism is commonly defined as passing off someone else's words, writings, ideas, etc. as one's own. Plagiarism is tantamount to lying and stealing. In order to avoid plagiarism, properly credit material drawn from other sources. Rules against cheating apply to homework, papers, and attendance sign-in as well as tests.

If you plagiarize, you will fail this course and suffer other penalties. You must agree to abide by the UT honor statement:

“Our essential feature of the University of Tennessee is a commitment to maintaining an atmosphere of intellectual integrity and academic honesty. As a student of the University, I pledge that I will neither knowingly give nor receive any inappropriate assistance in academic work, thus affirming my own personal commitment to honor and integrity.”

For full information, see [http://dos.utk.edu/files/hilltopics_10_11.pdf](http://dos.utk.edu/files/hilltopics_10_11.pdf)

The preceding paragraph comes from the syllabus of Jamie Todhunter (jtodhun1@utk.edu) for his class of POLS 370 for the Fall 2011 semester.

Students with Disabilities:
Students who have a disability that requires accommodation(s) should make an appointment with the Office of Disability Services at 865-974-6087 to discuss their specific needs. For full information, see [http://ods.utk.edu](http://ods.utk.edu).

As teaching assistant, I reserve the right to revise and re-post any aspect of the syllabus as needed. Hopefully it will be limited to correcting typos and making clarifications.
## Fall 2011 Astronomy 161 Lab Schedule

<table>
<thead>
<tr>
<th>Week of</th>
<th>Lab Title</th>
<th>Lab Exercise</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/22/2011</td>
<td>No Labs for Students – GTA Training</td>
<td>None</td>
</tr>
<tr>
<td>08/29/2011</td>
<td>Observations and the Telescope</td>
<td>Lab 1*</td>
</tr>
<tr>
<td>09/05/2011</td>
<td>Labor Day Week, No In-class Labs</td>
<td>None</td>
</tr>
<tr>
<td>09/12/2011</td>
<td>Units and Conversions + Angles and Coordinates</td>
<td>Ex. 2 + 5</td>
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<tr>
<td>09/19/2011</td>
<td>Sidereal Time</td>
<td>Ex. 7</td>
</tr>
<tr>
<td>09/26/2011</td>
<td>“The Sky” An Introduction to Stars and Constellations</td>
<td>Lab 4*</td>
</tr>
<tr>
<td>10/03/2011</td>
<td>Jupiter's Moons and Kepler's Laws of Motion</td>
<td>Lab 7*</td>
</tr>
<tr>
<td>10/10/2011</td>
<td>Open for Night-Lab Completion, No In-Class Labs</td>
<td>See “T-Labs”</td>
</tr>
<tr>
<td>10/17/2011</td>
<td>Stellar Magnitude and Distance</td>
<td>Ex. 13</td>
</tr>
<tr>
<td>10/24/2011</td>
<td>Acceleration of Gravity</td>
<td>Ex. 8</td>
</tr>
<tr>
<td>10/31/2011</td>
<td>Image Processing With CCDOps</td>
<td>Lab 8*</td>
</tr>
<tr>
<td>11/07/2011</td>
<td>Lab Make-Ups</td>
<td>Missed Labs</td>
</tr>
<tr>
<td>11/14/2011</td>
<td>Lab Final Exam</td>
<td>The End</td>
</tr>
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* Labs noted with an asterisk are not found in the manual by Dr. Duckett. PDF files of these labs can be downloaded from the “New Labs” link on the left of the Website page mentioned above.