ASTRONOMY 161 LAB
SPRING 2008
8:00-9:55 AM AND 10:10AM-12:05PM NIELSEN 507

Instructor: Michelle Neeley
Email: mneeley1@utk.edu

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

Description of Course:
Astronomy 161 Lab is a continuation of your Astronomy 161 Lecture course. This course is designed to enhance your understanding of astronomy principals in an applied setting through experiment. The lab experiments will further emphasize what is being taught in lecture.

Required Materials:
For each lab you are to bring you lab manual, pencils, and a calculator.

Lab Reports:
For each lab, you will record collected data and complete the questions asked on the provided answer sheet. This also includes any required graphs of data collected. When your answer sheets are complete, they are to be handed in BEFORE the beginning of the next meeting time (one week later). I will not accept lab reports after this time, and you will receive a zero for the lab.

Attendance:
Attendance is MANDATORY for every lab! In general, you will not be permitted to do your experiments in another section. If you miss ONE lab without prior approval from me, you will receive an incomplete for the course and will automatically be dropped from the class. This is departmental policy, and I will not tolerate excuses. In cases of emergency, you may make-up a lab in my other morning section with prior approval from me or make it up at the end of the semester (4/6). I do not recommend either of these options. Night observing sessions are treated just like a normal lab-you can not miss one! I will provide more information as it becomes available.

Grading:

Lab Reports	65%
Observations	20%
Lab Final	15%
Total	100%

*Students who have a disability that requires accommodation(s) should make an appointment with the Office of Disability Services (947-6087) to discuss their specific needs.

Schedule

1/7 Classes Begin
1/12 Exercise 2: Measurements/Unit Conversions & Exercise 5: Angles/Coordinates
1/19 Martin Luther King Jr. Day NO LAB
1/26 Telescope Lab
2/2 Exercise 7: Sidereal Time
2/9 CLEA 1: The Revolution of the Moons of Jupiter
2/16 S1: The Sky – An Introduction to the Stars and Constellations
2/23 Exercise 13: Stellar Magnitude and Distance
3/2 Exercise 8: Acceleration of Gravity
3/9 *T1: Celestial Observations Using the Telescope **NO LAB**
3/16 Spring Break NO LAB
3/23 *T2: Astrophotography and the CCD Camera **NO LAB**
3/30 T3: Introduction to the Digital Darkroom (*Adobe Photoshop*)
4/6 Make-up Lab
4/13 Final Exam
4/24 Classes End

* These labs are conducted using the telescopes on the roof and will he held throughout the semester. These are MANDATORY labs for ALL students.