ASTR 1010: Solar System Astronomy
Lab Syllabus
Spring 2016 * 528 Kell Hall
Labs begin on January 25th

Student Materials: Bring the following to class every lab period:
- Pencils & Eraser

Attendance: Students must attend the lab section for which they have enrolled. Because many labs are full, students cannot attend another section to make up a missed lab class. However, your lowest score will be dropped.

Honesty Policy: Students are expected to follow the honesty policies of the university. Any work that does not represent your own efforts will receive a score of zero. When group work is done, it is expected that each student in the group will reply to questions using their own words. Therefore, do not copy other student’s lab work or observations.

Lab Grades:
- Laboratory work is to be completed in class and turned in at the end of each lab period. Late labs, or lab work done outside of class will not be accepted.
- Each completed lab will be scored on a scale of 0-10 points. Your lowest lab score will be dropped. Therefore, if you miss lab for any reason that will become your dropped score.
- Your average lab score will count as 25% of your overall ASTR 1010 grade.
- Failure to attend at least half of the lab classes will result in an F for the entire course because this is a lab science and lab attendance is required. So if you make an A in lecture but do not regularly attend lab you will fail the course.

Extra Credit: There are 10 extra credit points available in the lab.
- 4 Points: Attending a Hard Labor Creek Observatory Open House.
- 3 Points: Visiting a second (different) observatory, in addition to the requirement for Lab 28.
- 2 Points: Building and bringing to lab the quadrant for Lab 24 early in the semester (before or during the week of March 7-11).
- 1 Point: Bringing to lab a Moon phase picture for Lab 24 early in the semester (before or during the week of March 7-11).

Lab Website: More information about labs, observing sessions, teaching schedules, etc can be found at http://www. astro.gsu.edu/lab
<table>
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<th>Dates</th>
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| Jan. 25-29    | Lab 1: The Celestial Sphere and Planispheres  
Introduce Lab 28: Visiting an Observatory (10 pts.)  
• Required and cannot be dropped.  
• Due on the last day of lab. |
| Feb. 1-5      | Lab 2: Phases of the Moon  
Introduce TERM PROJECT, Lab 24: Observing Phases of the Moon (20 pts.)  
• Required and cannot be dropped.  
• Due on the last day of lab. |
| Feb. 8-12     | Lab 3: Planetary Orbits & Handout |
| Feb. 15-19    | Lab 4: Mass of Jupiter |
| Feb. 22-26    | Handout: Scale Sizes of the Solar System |
| Feb. 29-Mar. 4| Lab 5: Construction of a Refracting Telescope |
| Mar. 7-11     | Lab 7: Lunar Features |
| Mar. 14-18    | Spring Break! Lab does not meet. |
| Mar. 21-25    | Handout: Eclipses |
| Mar. 28-Apr. 1| Lab 9: Impacts and Craters |
| Apr. 4-8      | Lab 8: Landscapes of Mars (Subject to Change) |
| Apr. 11-15    | Lab Evaluation  
Review Game |
| Apr. 22       | Lab does not meet.  
**Turn in Lab 24, Observing Phases of the Moon, outside Kell 515**  
**Turn in Lab 28, Visiting an Observatory, outside Kell 515**  
• To receive credit for this lab, you must turn in the completed and signed page from Lab 28 in your lab manual. Your lab instructor will announce, in lab, evening observations to be held on campus to complete this requirement, OR you can attend any public night at a local observatory such as Fernbank Science Center or Hard Labor Creek Observatory. |

Lab Instructor’s name: Caroline Roberts  
Lab Instructor’s email: roberts@astro.gsu.edu  
Lab Instructor’s office: Kell 527  
Lab Instructor’s website: [http://www.astro.gsu.edu/~roberts/lab.html](http://www.astro.gsu.edu/~roberts/lab.html)
This syllabus provides a general plan for the course; deviations may be necessary.

Your constructive assessment of this course plays an indispensable role in shaping education at Georgia State University. Upon completing the course, please take the time to fill out the online course evaluation.

Students who wish to request accommodation for a disability may do so by registering with the Office of Disability Services, and should contact the Lab Instructor. Students may be accommodated upon by issuance of the Office of Disability Services of a signed Accommodation Plan.

Students with family responsibilities should contact the Lab Instructor by email regarding missed or late work.

Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here:

GSU Student Victim Assistance (404) 413-1965
GSU Counseling Services: (404) 413-1640
Grady Rape Crisis Center: (404) 616-4861
GSU Campus Police (404) 413-3333
GSU Title IX Coordinator Linda Nelson: (404) 413-3290