UNIVERSITY OF CALGARY DEPARTMENT OF PHYSICS AND ASTRONOMY COURSE INFORMATION SHEET

Course: Astrophysics 309 – Solar System Astrophysics

Lecture section(s): L01: MWF 9:00-9:50 ST 063

Instructor(s): Dr. A. Louro Office: SB 623, 403-220-8648

Email: louro@ucalgary.ca

Office hours: TBA

Main Office: SB 605, 220-5385, office@phas.ucalgary.ca

Prerequisites: Physics 255 or 323 or 355.

Grading: The University policy on grading and related matters is described in sections F.1 and F.2 of the online University Calendar. In determining the final grade in the course, the following weights will be used:

• Assignments (6) - 40%

• Midterm test - 15%

• Lab - 25%

• Final exam - 20%

Percentage grades will be given for all elements of term work and examinations. A weighted course percentage will be calculated for each student after the final exam is written. A table of conversion from final course percentage to final course letter grade will be published on the Phys 369 Blackboard site later in the term.

Missed components of term work: The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in section 3.6: http://www.ucalgary.ca/pubs/calendar/current/sc-3-6.html. It is the student's responsibility to familiarize himself/herself with these regulations. See also http://www.ucalgary.ca/pubs/calendar/current/e-3.html.

Out-of-class-time activities: Dates and times of class exercises held outside of class hours: Midterm test, Wednesday Nov. 3 17:30–19:30.

Regularly scheduled classes have precedence over any out-of-class-time activity. If you have a clash with this out-of-class-time activity, please inform your instructor as soon as possible so that alternative arrangements may be made for you.

Textbook: Physical processes in the solar system, J.D. Landstreet.

Examination policy: Students are encouraged to read the Calendar, Section G, on Examinations: http://www.ucalgary.ca/pubs/calendar/current/g.html.

Writing across the curriculum: In this course, the quality of the student's writing in assignments will be a factor in the evaluation of those assignments. See also http://www.ucalgary.ca/pubs/calendar/current/e-2.html.

Department approval

Date: 2010-09-17

Associate Dean's approval for out of regular class time activity: ____

180-09-20

SAFEWALK: Campus Security will escort individuals day or night. Call 220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.

Academic misconduct (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under K. Studen Misconduct (http://www.ucalgary.ca/pubs/calendar/current/k.html) to inform yourself of definitions, processes and penalties.

Assembly points in case of emergency during class time: Be sure to familiarize yourself with the information at http://www.ucalgary.ca/emergencyplan/assemblypoints.

Academic accommodation policy: Students with documentable disabilities are referred to the following links:

 $Calendar\ entry\ on\ students\ with\ disabilities:\ http://www.ucalgary.ca/pubs/calendar/current/b-1.html$

Disability Resource Centre: http://www.ucalgary.ca/drc/

FOIPP: This course will be conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). As one consequence, students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. See http://www.ucalgary.ca/secretariat/privacy.

Student Union Information: VP Academic: Phone 220-3911, email suvpaca@ucalgary.ca.

SU Faculty Rep.: Phone 220-3913, email sciencerep@su.ucalgary.ca, website http://www.su.ucalgary.ca/home/contact.html.

Student Ombudsman: http://www.su.ucalgary.ca/services/student-services/student-rights.html.

Internet and electronic communication device information: You can assume that in all classes that you attend, your cell phone should be turned off. Also, communication with other individuals, via laptop computers, Blackberries, or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.

ASPH 309 Syllabus:

A survey of the solar system. Gravitation and celestial mechanics.

Matter and energy: Atomic structure of matter, chemical bonds. Minerals and rocks.

The Sun.

Formation of stars and planetary systems.

Meteors, impacts, and meteorites.

Asteroids.

Comets.

The Earth, its interior and surface processes.

Other terrestrial planets.

Terrestrial planetary atmospheres.

The Giant planets and their moons.

Lab: Telescopes, CCD sensors, filters. Image processing with ImageJ. Extracting quantitative information from images: Photometry.