

GEORGIA PERIMETER COLLEGE
DIVISION OF SCIENCE
COMMON COURSE OUTLINE
REVISION DATE: September 2003

COURSE ABBREVIATION	ASTR 1010L (Lab)
CREDIT HOURS	1 semester hour
COURSE TITLE	Astronomy of the Solar System Laboratory
PREREQUISITES	Exit or exemption from Learning Support Mathematics and exit or exemption from Learning Support reading or ENSL 0090 with a "C" or better
COREQUISITE	ASTR 1010

CATALOG DESCRIPTION

Laboratory to accompany ASTR 1010.

EXPECTED EDUCATIONAL RESULTS

As a result of completing this course, the student will be able to:

1. Perform basic measurements as are deemed appropriate by the experiments performed;
2. Analyze pictures and/or graphical information and answer questions based on them;
3. Discuss the theoretical basis of the performed experiments in the terms described by the corresponding complementary lecture.

GENERAL EDUCATION OUTCOMES

This course has primary responsibility for general education outcome number six:
Recognize and apply scientific inquiry in a variety of settings.

It is intended that the course meets this objective in the following way:

This is a laboratory course. This course directly involves the use of scientific inquiry in the quest to understand astronomy. The performance of the weekly experiments will provide experience in applying scientific inquiry.

COURSE CONTENT

The course shall meet at least 13 times per semester. Among the sessions there should be: One Mathematical Review, One Mid-Term Exam or a Study Session, at least 10 laboratory exercises, and one comprehensive final exam.

The following lab experiments are available for the students to perform. The instructor should select at least ten of the experiments to perform, in keeping with the course and the available equipment.

- Celestial Coordinates
- Telescopes
- Observing Session I
- Planetarium
- Planetary Orbits and Kepler's Laws
- Retrograde Motion of Mars
- Eclipses
- The Greenhouse Effect *
- Rotation rate of the Earth
- The Moon
- Observing Session 2: The Moon
- Rotation of Mercury
- Geology of Venus
- Mars
- Jupiter
- The Moons of Jupiter
- Asteroids

ASSESSMENT OF EXPECTED EDUCATIONAL RESULTS

The college believes in the academic value of giving final exams that are comprehensive in nature; however, the college also values the discretion of the faculty member to determine appropriate assessment methods. The departments on each campus and/or individual instructors will construct a detailed syllabus based on the Common Course Outline for implementation in each class.

Revised: March 1998 for semester conversion
 May 1998 for semester conversion (conform to standard format)
 March 2001- revised to reflect current catalogue
 March 2002- course name and number changed
 Sept. 2003- assessment statement from Faculty Handbook adopted

Reviewed: March 2005