GG 105, FALL 2015
VOYAGE THROUGH THE SOLAR SYSTEM

Lecture T/TH(R) 1:30 – 2:45 pm
Location: POST 723

Instructor:
Peter Englert, Hawaii Institute of Geophysics and Planetology
Contact information: office - POST 509A, phone - 956-5033, penglert@hawaii.edu
Office hours: T/TH(R) 3:00 – 4:00 pm, or by appointment.

Textbooks & supporting materials (All are required):
- SPECIAL package (bookstore) TBA
- Alternative:
  - *The Cosmic Perspective*, 7th ed., Bennet et al., 2014, Pearson Education,
    ISBN 13: 978 0 321 83955 8
  - *Mastering Astronomy* (an online learning tool), 6th ed. or higher, Pearson Education,

Instructional Philosophy of the Course.
The overarching goals of this course are for you to understand the nature of science through engagement with planetary science and astronomy and to develop a lifelong interest in understanding our solar system and the universe beyond. To meet these goals I have designed a sequence of learning tasks and assessment procedures.

Participation: Active engagement with group activities.
This course is composed of a series of short lectures that will be augmented by collaborative classroom activities called Lecture Tutorials (LT). The LT activities target specific ideas presented in lecture and will be completed in pairs/mini-groups during class, by talking through the questions and writing a consensus response. You will not submit these for grading. LT questions are quite similar to those you will find on the course exams.
Occasionally, selected Lecture tutorials will be assignment for completion outside class. You can submit the completed LT for evaluation to be returned to you.
Your participation in each class period through LTs will be an essential component of your success in the course.

Attendance: Attendance at all classes is required.
Because this course is built around daily activities to accompany the lecture, your attendance in each class period will be an essential component of your success in the course. Periodically unscheduled questionnaires given and collected during class are used to establish an attendance statistics. These questionnaires will be evaluated and returned to you, but will not be given a grade.

Reading Assignments: Complete reading assignments before class.
Careful reading of the assigned text will help you to benefit more from lecture and lecture tutorials. Lectures are designed to focus on the more complex aspects of the reading material. Reading assignments must be completed BEFORE the date listed. On-line homework assignments will be based on reading assignments.
**Homework: Periodic homework is required.**

During the semester you will be required to complete homework assignments that are designed to support and assess your understanding of the material covered in the course text, and in lecture. A part of homework will be assigned through the Mastering Astronomy online learning tool. The due dates for this set of homework are listed and controlled by the Mastering Astronomy program. We will also assign a set of homework problems that you are to complete on your own time and submit by the beginning of class on the due date. The due dates for these homework assignments are scheduled provisionally. We will communicate all information about these assignments in class and also post them on Laulima. **No late homework will be accepted.** If you have been certified as needing to complete or to hand in an assignment late (e.g., a doctor’s note or SAAS memo), please talk to us in advance.

**Activities Outside of Class.**

During the semester you can earn credit towards your course grade by participating in one the following activities:
A scheduled field trip to the Bishop Museum or the Windward Community College Planetarium; or a scheduled telescope observation of stars and planets. Not all activities may be available during this semester. Date of activity opportunities will be determined/announced in class. You may also choose to join a scheduled undergraduate field trip – usually to the Island of Hawaii – of the GG department. The GG department field trip opportunity will be announced in class. Joining this field trip will also earn you the full complement of extra credit available for this course. **You need to complete scheduled activities before Friday, April 25, 2014.**

**Exam Conditions**

There will be two mid-semester examinations (1 lecture period) and a final exam on the dates scheduled in the syllabus. The exams are closed book and closed-note. You are not allowed to wear headphones, or allowed to communicate with anyone in the classroom except for the course instructor and exam proctors. Cell Phones must remain off at all times during exams. If you have been certified as needing to take an exam under special circumstances (e.g., a doctor’s note or SAAS memo), talk to me in advance. Traditionally there is a practical part to the last two exams, which can be completed in small groups.

**Grading Scheme**

Absolute grading (no curve grading); plus and minus letter grades will be given.

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<tr>
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<th>Letter Grades</th>
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<tbody>
<tr>
<td>1.</td>
<td>Midterm 1</td>
<td>20%</td>
</tr>
<tr>
<td>2.</td>
<td>Midterm 2</td>
<td>20%</td>
</tr>
<tr>
<td>3.</td>
<td>Final Exam</td>
<td>30%</td>
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<tr>
<td>4.</td>
<td>Online Homework*</td>
<td>15%</td>
</tr>
<tr>
<td>5.</td>
<td>Homework*</td>
<td>10%</td>
</tr>
<tr>
<td>6.</td>
<td>Outside activity</td>
<td>5%</td>
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<tr>
<td>7.</td>
<td>Extra credit</td>
<td>up to 5%</td>
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**Extra Credit**

You can receive extra credit if you attend other outside class activities such as a public star party at Kahala Community Park, hosted by the Hawaiian Astronomical Society. Information about star party nights can be found at: [http://nightsky.jpl.nasa.gov/event-view.cfm?Event_ID=23475.](http://nightsky.jpl.nasa.gov/event-view.cfm?Event_ID=23475.) Ask about other ways of earning extra credit.
Course Conduct
Any behavior that disrupts another students’ learning will not be tolerated!
Please turn off cell phones before you enter the classroom. Also, please do not leave class early unless you have talked to the instructors in advance. These requests are both for issues of safety as well as consideration for your fellow students.
We consider academic dishonesty, including cheating, plagiarism, and fabrication, as defined in the University Hawaii Code of Conduct, to be a serious offense.

Disability Access:
If you have a disability and related access needs the Department will make every effort to assist and support you. For confidential services students are encouraged to contact the Office for Students with Disabilities (known as “Kokua”) located on the ground floor (Room 013) of the Queen Lili‘uokalani Center for Student Services:
KOKUA Program
2600 Campus Road
Honolulu, Hawaii 96822
Office hours 7:45 AM – 4:30 PM
Voice: 956-7511
Email: kokua@hawaii.edu
URL: www.hawaii.edu/kokua

Guide to success in this class
- Attend and participate in all classes. You’ll get out as much as you put in.
- Do reading assignments BEFORE class.
- On average you should spend 2-3 hours on your own (reading, studying, making notes, working on assignments, etc.) for every hour you are in class.
- TAKE NOTES, TAKE NOTES, TAKE NOTES!
- We suggest you use a 3-ring binder for your notes. This will allow you to incorporate LTs and handouts in an organized fashion.
- Do lecture tutorials in detail, which will require some time outside of class. In class you may only have time to briefly annotate your answers.

All lecture materials, including PowerPoint's, special Lecture Tutorials, and general homework problems and their solution keys (not for on-line Mastering Astronomy homework) will be posted on LAULIMA.

A GG 105 SPRING 2014 Summary Schedule is published below. Minor changes/updates to this schedule will be published in lecture power points (available through LAULIMA).

Large files, including movies required to be viewed for this course, will be posted in the following location: http://www.higp.hawaii.edu/~englert/GG_105_SPRING_2014_LARGE_FILES