Astronomy 4 Solar System Astronomy Section 61Z, CRN 208

Fall Quarter 2023 Instructor: Rachel Mastrapa, PhD Asynchonous Email: mastraparachel@fhda.edu

Class Location: Online only

Textbook:

Astronomy, Fraknoi, Morrison, and Wolff Openstax (Free)

Office hours: Friday, 2 PM, or by appointment. Use Zoom in Canvas.

Course Description: In this class, students will analyze the physical principles, logic, and development of solar system astronomy from ancient times through the present. This class includes multimedia planetarium demonstrations. Class content is designed for non-science majors. Credit for the 5 quarter units of Astronomy 4 is fully transferable to both the University of California and California State University systems.

Drop without W by October 8 Drop with W by November 17

Exam Schedule

Exam 1 Due October 8
Exam 2 Due November 12
Final Exam Due Tuesday, December 12

Grade Breakdown

Discussions	15%
Homework	40%
Exams	30%
Final Exam	15%
Total	100%

Course Grade Ranges

Α	90–100%
В	80–89%
С	70–79%
D	60–69%
F	<60%

I will inform you of any changes to the policies or procedures listed below.

Behavior

All students and instructors are expected to treat each other with respect. Everyone will be held to the expectations listed in the <u>Student Code of Conduct</u> and the <u>Academic Integrity Policy</u>.

Class Format

This class is divided into 22 modules in Canvas. Each module contains reading assignments, videos, and homework. All homework assignments are due at 1:30 on the date of the module, while the discussion is due at 3pm. You are responsible for completing all of your assignments on time. Late assignments will lose 2% of their grade per day late. Exams and the Final are separate work and discussed below. You will need to use Canvas and Zoom to complete the class. Please visit the remote learning page for any technical support or advice.

Discussions: 15% of grade

All students will be assigned to groups to complete discussion assignments. Groups will submit a brief discussion assignment for a grade.

Homework: 40% of grade

All homework assignments are in the format of Canvas multiple choice quizzes. Although they are called quizzes, they are open notes/textbook and you have 2 chances to complete them, retaining your highest score. There is at least one quiz on the reading assignment and one quiz for each video lecture. All homework assignments are due at 1:30 **before** the discussion.

Exams: 30% of grade

There will be two open notes exams due at 5 pm on January 21 and February 18. The exam in January will cover all material covered before that date. The exam in February will focus on material covered since the previous exam. Exams will consist of multiple-choice questions in Canvas. You will have only **ONE** attempt to take the exam. Late exams will have a deduction of 10% per day. The exam will close 5 days after the due date and answers will be posted. **There are no make-ups or extensions for any reason.**

Final Exam: 15% of grade

The final will be due on Tuesday, March 22 at 5pm. The final will include all material covered over the entire course. The format is the same as the exams. Late finals will be deducted 20% per day. The final will close on Friday, March 25 at 5pm. **There are no make-ups or extensions of the final for any reason.**

Attendance

Attendance will be taken through Zoom during discussions. Be sure that your full name is clear or you may be marked as absent. If you are absent at all during the first two weeks of class, you will be dropped.

Objectives

- To provide the student with as comprehensive an account of the modern field of planetary astronomy as possible.
- To create an increased sense of place and scale in the universe and a sense of how our species reached its current understanding of our world's place in the larger scheme of things.
- To acquaint the student with the appearances and other physical characteristics
 of the major planets, especially as they have been revealed by space probes
 over the last generation.
- To generate a familiarity with the various modes of research, which astronomers
 use to investigate other planets, including (but not limited to) various types of
 automated spacecraft.

Tutoring

Need help with this course? Want to more personal connections this quarter? Student Success Center tutors and workshops are ready for you! Watch the <u>SSC Welcome Video</u>to learn more.

Tutoring: Go to http://deanza.edu/studentsuccess and click to join a Zoom tutoring room during open hours.

Workshops: Attend a <u>Skills Workshop</u>, a <u>content-specific math/science</u> <u>workshop</u>, an <u>Accounting chapter review workshop</u>, or a <u>Listening and</u> Speaking workshop.

Resources: Join the <u>SSC Resources Canvas site</u> to see content and learning skills links.

After-hours or weekend tutoring: See the <u>Online Tutoring</u> page for information about NetTutor (via Canvas) or Smarthinking (via MyPortal).

Student Learning Outcomes

- Appraise the benefits to society of planetary research and exploration.
- Compare and contrast the development of planetary systems and of the major planet types, including those factors that have led to Earth's unique characteristics.
- Evaluate astronomical news items or theories concerning solar system astronomy based upon the scientific method.

Student Learning Outcome(s):

- Appraise the benefits to society of planetary research and exploration.
- Compare and contrast the development of planetary systems and of the major panet types, including those factors that have led to Earth's unique characteristics.
- Evaluate astronomical news items or theories concerning solar system astronomy based upon the scientific method.

Office Hours:

F 02:00 PM 03:40 PM Zoom