# Astronomy 4 Solar System Astronomy Section 54Z, CRN 189

Winter Quarter 2023 Asynchronous Class Location: Online only Instructor: Rachel Mastrapa, PhD Email: mastraparachel@fhda.edu

#### Textbook:

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

Office hours: Friday, 2 PM, or by appointment. Access office hours through 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 and with Refund by January 22 Drop with W by March 3

Grade Breakdown Discussions 15%		Exam Schedule	
Homework Exams Final Exam	40% 30% 15%	Exam 1 Due January 22 Exam 2 Due February 24	
Total	100%	Final Exam Due Tuesday, March 28	
Course Grade Ra	•		

A	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</u> <u>Integrity Policy</u>.

#### **Class Format**

This class is divided into **22** modules in Canvas for each "day" of class. Each module contains reading assignments, videos, and homework. The due date for all assignments is listed in the title of each module. 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 <u>remote learning page</u> for any technical support or advice.

#### Discussions: 15% of grade

In each module there will be at least one discussion topic that will be graded. You will be asked a question regarding what you have learned. These questions are designed to make you think about the big picture, and do not necessarily have a single correct answer. You will be graded on how well you argue your point by supporting it with examples from the lecture or textbook. This assignment should only be a few sentences long and not take you longer than 15 minutes to complete. The rubric for discussions is shown below:

Discussions Rubric			<b>∿</b> Q₫
Criteria		Ratings	
No response	0.0 pts Full Marks	0.0 pts No Marks	0.0 pts
Medium Effort Two to three sentences, loosely related to the question.	5.0 pts Full Marks	0.0 pts No Marks	5.0 pts
Full Effort Three to five sentences containing a reasonable response to the question with a useful example.	5.0 pts Full Marks	0.0 pts No Marks	5.0 pts
		Total Poi	ints: 10.0

### 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.

## Exams: 30% of grade

There will be two open notes exams due at 5 pm on **January 2 and February 24**. The exam in October will cover all material covered before that date. The exam in November will focus on material covered since the previous exam. Exams will consist of multiple-choice questions in Canvas. You will have only <u>ONE</u> 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 28** 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 **March 31** at 5pm. <u>There are no make-ups or extensions of the final for any reason.</u>

## Attendance

For an asynchronous class, I count attendance by completion of assignments. Any students that do not complete any of the assignments in the first two weeks of class may be dropped. I will contact students before dropping them.

## 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</u> <u>Welcome Video</u> to learn more.

**Tutoring:** Go to <u>http://deanza.edu/studentsuccess</u> 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> workshop, an <u>Accounting chapter review workshop</u>, or a <u>Listening and Speaking</u> 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).

**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.