

ASTRONOMY 10

Stellar Astronomy De Anza College Winter 2024

Instructor: Eric Peterson, Ph.D.

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Office Hours: Wednesday, 4:00 to 4:50 p.m. on Zoom

Textbook: <https://openstax.org/details/books/astronomy>

(Select your preferred option under the header: Get This Book.)

Introduction

Astronomy 10 is an introductory course which is intended to provide a survey of our knowledge of the stars, galaxies, and of the entire universe. We will examine both the history of humanity's quest to understand the cosmos as well as the current state of that understanding. The course has no prerequisites. However De Anza College does advise the following: *English Writing 1A or English as a Second Language 5*. The class is taught with the non-science major in mind.

Format

I am trying to keep things simple. Each week I would like you to do the following:

1. Read the assigned reading for that week
2. Watch assigned powerpoint lecture(s)
3. Watch assigned video(s)
4. Take a short quiz

The reading assignments are on the next page of the syllabus. In addition there will be a midterm exam during week six and a final exam the week of March 21st.

Exams and Grades

Your class grade will be based on weekly quizzes, a midterm exam, and a comprehensive final exam. All will be online through Canvas. The quizzes will constitute 50% of your grade; each individual quiz will be 5% of your grade. The midterm and the final will each be 25% of your grade. The questions will all be of the T/F or multiple choice variety

Reading Assignments

| <u>Week of</u> | <u>Chapter</u> |
|-----------------------|--------------------------|
| 1. January 8 | 1, 2.1-2.3 |
| 2. January 15 | 2.4, 3, 4.1-4.2, 4.5-4.7 |
| 3. January 22 | 5-6 |
| 4. January 29 | 15-16 |
| 5. February 5 | 17-19 |
| 6. February 12 | 20, 21.1-21.2, 22 |
| 7. February 19 | 23-24 |
| 8. February 26 | 25 |
| 9. March 4 | 26-27 |
| 10. March 11 | 28 |
| 11. March 18 | 29 |
| 12. March 25 | Final Exam |

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.