

# ASTRONOMY 310

Ticket Number 15585

7:00 – 8:20 P.M. Mondays and Wednesday

Davis Center South, Room 218

**Instructor:**..... Professor Charles Mallory

**Email:**..... [Professor.Mallory@gmail.com](mailto:Professor.Mallory@gmail.com) or [MallorC@scc.losrios.edu](mailto:MallorC@scc.losrios.edu)

**Office Hours:**..... 6:30-7:00PM in the classroom and by arrangement.

**Pre-Requisites:** ..... MATH 34 (Pre-algebra)

**SLO:**..... Student Learning Outcomes (SLO)

1. *Assess the scientific process as it pertains to the astronomy of the Solar System and planets in general.*
2. *Confirm astronomers' understanding of the processes that originated the Solar System.*
3. *Rank recent discoveries about planets into a broad context amid the background of Solar System planets.*
4. *Construct the processes that led to the present state of the Solar System.*
5. *Integrate new knowledge from exoplanet discoveries with known planet qualities.*
6. *Incorporate knowledge about other worlds into understanding the functionality of Earth.*

**Text:**..... Astronomy Today, by Chaisson McMillan 8<sup>th</sup> edition. ISBN 10 digit 0-321-90167-3; 13-digit 978-0-321-90167-5 (Student edition) or ISBN 10-digit 0-321-90971-2; 13-digit 978-0-321-90971-8 (Volume 1).

**Class Description:** ..... This is a descriptive course covering the nature and evolution of the Solar System including exoplanets of stars beyond the Sun. Topics include the origins and characteristics of different types of planets, satellites, ring systems, asteroids, comets, and other debris. The Sun's role within the Solar System is discussed. Emphasis will be placed on how astronomers obtain and refine their knowledge of planets, and students will interpret the latest planetary discoveries in that context.

**Attendance:** ..... Attendance will be taken each class meeting and will count for 5% of your final grade. **If you do not attend this class, it is your responsibility to drop this class.**

**Quizzes:**..... **Quizzes will be given after each chapter the following week** and will count for 20% of your final grade. The quiz questions will primarily come from the previous class lecture along with some questions from the book. The quizzes may consist of *True/False*, *Multiple Choice* and be given online along with *Fill in the Blank*, *Matching* and *Short Answer* questions given in class.

**Tests:**..... Tests will be given up to four times during the semester and will count for 35% of your final grade. The test questions will **ONLY** be taken from the previous quizzes. **Tests will not be cumulative and will only consist of quiz questions since the previous test.**

**Final:**..... *The Final will count for 40% of your final grade. The final questions will ONLY be taken from the tests. The final will be cumulative and cover all tests and the last quiz. Failure to take the final exam will result in an automatic fail in the course.*

**Extra Credit:**..... To be discussed in class.

**Grading:**..... Grading will be performed on a semi-modified curve. The grade you will earn will be based on the following scale:

A	90%	- 100%
B	75%	- 89%
C	60%	- 74%
D	45%	- 59%
F	0%	- 44%

I guarantee that you will receive at least the above grade if not higher due to modifications of the curve to fit the class performance.

**Grade Breakdown:** .....

Attendance	5%
Quizzes	20%
Tests	35%
Final Exam	40%

**NOTE Failure to take final exam will earn you an 'F' for the class**

## TENTATIVE LECTURE SCHEDULE

(Please note the final date will NOT change, but almost everything else may)

Date	Material
Sat - Jan 14, 2023	Classes start
Mon - Jan 16, 2023	Martin Luther King Jr. Day - No Classes
Wed - Jan 18, 2023	Introduction, Class Description, Syllabus
Mon - Jan 23, 2023	Ch 1 - Charting the Heavens: The Foundations of Astronomy & The Scientific Method
Wed - Jan 25, 2023	Ch 1 - Charting the Heavens: The Foundations of Astronomy & The Scientific Method
Fri - Jan 27, 2023	Last day to drop classes and qualify for a tuition refund
Sun - Jan 29, 2023	Last day to drop classes without notation on record, Last day to enroll in classes
Mon - Jan 30, 2023	Ch 2 - The Copernican Revolution: The Birth of Modern Science
Wed - Feb 01, 2023	Ch 2 - The Copernican Revolution: The Birth of Modern Science
Mon - Feb 06, 2023	Ch 4 - Spectroscopy: The Inner Workings of Atoms
Wed - Feb 08, 2023	Ch 4 - Spectroscopy: The Inner Workings of Atoms
Mon - Feb 13, 2023	Ch 3 - Radiation: Information from the Cosmos
Wed - Feb 15, 2023	<b>Test 01 - Chapters 1 &amp; 2</b>
Mon - Feb 20, 2023	George Washington's Birthday – No Classes
Wed - Feb 22, 2023	Ch 5 - Telescopes: The Tools of Astronomy
Mon - Feb 27, 2023	Ch 5 - Telescopes: The Tools of Astronomy
Wed - Mar 01, 2023	Ch 6 - The Solar System: Comparative Planetology and Formation Models
Mon - Mar 06, 2023	Ch 6 - The Solar System: Comparative Planetology and Formation Models
Wed - Mar 08, 2023	Ch 7 - Earth: Our Home in Space
Mon - Mar 13, 2023	Spring Recess – No Classes
Wed - Mar 15, 2023	Spring Recess – No Classes
Mon - Mar 20, 2023	<b>Test 02 - Chapters 4, 3, 5 &amp; 6</b>
Wed - Mar 22, 2023	Ch 7 - Earth: Our Home in Space
Mon - Mar 27, 2023	Ch 8 - The Moon and Mercury: Scorched and Battered Worlds
Wed - Mar 29, 2023	Ch 9 - Venus: Earth's Sister Planet
Mon - Apr 03, 2023	Ch 9 - Venus: Earth's Sister Planet
Wed - Apr 05, 2023	Ch 10 - Mars: A Near Miss for Life?
Mon - Apr 10, 2023	Ch 10 - Mars: A Near Miss for Life?
Wed - Apr 12, 2023	Ch 11 - Jupiter: Giant of the Solar System
Mon - Apr 17, 2023	Ch 11 - Jupiter: Giant of the Solar System & AND Last day to withdraw with "W"
Wed - Apr 19, 2023	Ch 12 - Saturn: Spectacular Rings and Mysterious Moons
Mon - Apr 24, 2023	Ch 13 - Uranus and Neptune: The Outer Worlds of the Solar System
Wed - Apr 26, 2023	<b>Test 03 - Chapters 7, 8 9, 10 &amp; 11</b>
Mon - May 01, 2023	Ch 14 - Solar System Debris: Keys to Our Origin
Wed - May 03, 2023	Ch 15 - Exoplanets: Planetary Systems Beyond Our Own
Mon - May 08, 2023	Ch 15 - Exoplanets: Planetary Systems Beyond Our Own
Wed - May 10, 2023	<b>Test 04 - Chapters 12, 13, 14 &amp; 15</b>
Mon - May 15, 2023	<b>FINAL - Cumulative</b>
Thu - May 25, 2023	Grades due to be submitted

*Please plan on taking a quiz on all dates except test dates, quizzes are designed to take about 10-15 minutes to complete.*

# CODE OF ACADEMIC HONOR AND INTEGRITY



## Sacramento City College Department of Science

Students at Sacramento City College, because they are members of an academic community dedicated to the achievement of excellence and the pursuit of honor, are expected to meet high standards of personal, ethical, and professional conduct. These standards require personal integrity and a commitment to honesty. Without the ability to trust in these principles, an academic community and a civil society cannot exist. Sacramento City College students and faculty are as committed to the development of students with honesty and integrity as they are to the academic and professional success of its students.

### Some Definitions...

#### **Academic Dishonesty**

*Academic dishonesty is the act of obtaining or attempting to obtain credit for academic work through the use of dishonest, deceptive or fraudulent means including, but not limited to:*

- *Copying from someone else's test*
- *Submitting work that is not your own*
- *Submitting work presented previously in another course, if contrary to the rules of either course*
- *Altering or interfering with grading*
- *Using material during an exam that is not allowed*
- *Consulting with someone other than the instructor during an exam*
- *Committing other acts that defraud or misrepresent*

#### **Plagiarism**

*Plagiarism is representing the work of someone else as your own and submitting it for any purpose. Plagiarism includes the following:*

- *Incorporating the ideas, works, sentences, paragraphs, or parts of another person's writings, without giving appropriate credit, and representing the product as your own work*
- *Representing another's artistic/scholarly work as your own*
- *Submitting a paper purchased from a research or term paper service*

#### **Other Acts of Dishonesty**

- *Purposely allowing another student to copy from you during a test*
- *Giving your homework, term paper, or other academic work to another person to plagiarize*
- *Having another student submit work in your name*
- *Lying to an instructor to improve your grade*
- *Altering a graded work after it has been returned and then resubmitting the work for regrading*
- *Removing a test from the classroom before it has been graded*

Violation of this policy will not be tolerated, and violators will be subject to penalties. The success of the **Code of Academic Honor and Integrity** is based upon the collective desire of students, faculty, and the community to live in an environment that embraces respect for that which is right – both in the college and in society as a whole.

By signing below, you agree that you have read and understand the Code of Academic Honor and Integrity and will abide by both its intent and its spirit:

Name (print) \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_