



PENSACOLA STATE COLLEGE

SYLLABUS

Descriptive Astronomy

AST1002-P1227

Spring 2026, Session A

Instructor: Lauren Rogers

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Last Date of Drop/Add: January 15, 2026

Last Date for Student to Withdraw: April 6, 2026

Final Exam Date: TBD

Class Meeting Time: Monday, Wednesday | 9:30 AM - 10:45 AM

Class Location: Pensacola Campus, Building 17, Room 1779

Prerequisites: Placement at the college level or completion of the appropriate exit-level developmental course(s) with a grade of C or better.

Course Description: This course provides a comprehensive look at modern astronomy, emphasizing the use of the scientific method and the application of physical laws to understand the universe including Earth and its environment. Throughout this course, students will develop the ability to discern scientific knowledge from non-scientific information by using critical thinking.

Credit Hours: 3 credit hours

Semesters Offered: Fall, Summer, Spring

Course Designations: College Transfer, Meets AA General Education Core, Natural Sciences (Physical Sciences) requirement.

General Education Core Course Standard: Per Florida Statute 1007.25, "Natural science courses must afford students the ability to critically examine and evaluate the principles of the scientific method, model construction, and use the scientific method to explain natural experiences and phenomena."

Required Textbooks and Instructional Materials: Openstax, Astronomy 2e, 9781951693503

Zero Textbook Cost (ZTC)

The educational materials used in this course, including textbooks and ancillary materials, are intended for educational purposes only. All opinions represent those of the author(s) and not necessarily those of Pensacola State College or the instructor.

Course Learning Outcomes:

1. Expand the student's knowledge of the universe around them.
2. Show that astronomers are continuing to make new discoveries and learn more about the universe every day.
3. Utilize, and provide a foundation, for exploring other physical sciences.

- Experience finding and identifying objects in the sky and learn to observe these objects with, or without, enhancements using technology like binoculars or a telescope.
- Inspire students to ponder some of the great unanswered questions in astronomy and hold interest in the pursuit of the solutions in the future.
- Provide context for understanding the students' own unique place in the cosmos.

General Education Student Learning Outcomes:

- Critical Thinking:** The student analyzes, evaluates, and, if necessary, challenges the validity of ideas, principles, or data in order to develop informed opinions, probable predictions, or defensible conclusions.
- Scientific and Mathematical Literacy:** The student properly identifies and applies scientific or mathematical principles and methods.
- Information Literacy:** The student effectively locates, evaluates, and applies information from a variety of sources.

Methods of Evaluation:

At minimum, the instructor will cover content which aligns with statewide and institutional learning outcomes for the course. The instructor will measure student performance using the following:

Grade calculation: Your final grade is based on your 4 unit tests and home/classwork.

The grade scale is:	Final Grade Calculation
90-100=A	Unit 1 test 20%
88-89=B+	Unit 2 test 20%
80-87=B	Unit 3 test 20%
78-79=C+	Unit 4 test 20%
70-77=C	Home/classwork 20%
68-69=D+	
60-67=D	There are no dropped grades.
Below 60=F	

Instructor Requirements:

Reading List - Spring 2026 Openstax, Astronomy 2e, 9781951693503

Topics	Textbook Chapters
A cosmic zoom	1
Seasonal skies	Appendix M
Patterns in astronomy	2, 4
Observational astronomy	2, 3, 5.2, 6
Solar system intro, pocket solar system activity	7
Solar system intro, solar system scale drawing activity	7
Rocky bodies (terrestrial planets)	8, 9.1-9.5, 10, 12
Gas giants (Jovian planets)	11, 12.1
Solar system debris, meteorites	12.4-12.5, 13-14
Analyzing light, spectroscopy	5.3
Sun and Stars	15-18
Star life cycle	22-23
HR diagram	18.4, 24.5
Galaxies, Hubble ultra-deep field, Sloan SS	20.3, 25, 28.4
Big bang and cosmology	29.1-29.5

Student Expectations: Students enrolled in this course can expect the following:

- Clearly identified course objectives;
- Productive class meetings;
- A positive learning environment;

4. Opportunities for appropriate student participation;
5. Effective instruction;
6. Positive and appropriate interactions;
7. Assistance with meeting course objectives during and beyond class hours;
8. Evaluation of student performance and appropriate and timely feedback; and
9. Clear and well-organized instruction.

Academic Dishonesty Statement: Pensacola State College is committed to upholding the highest standards of academic conduct. All forms of academic dishonesty, to include plagiarism and cheating, are prohibited. Penalties for academic dishonesty include but are not limited to one or more of the following: the awarding of no credit on the assignment, a reduction in the course grade, or the assignment of a final course grade of F and removal from the course. See the College Catalog for more details: [Academic Integrity](#)

ADA Statement: Students with a disability that falls under the Americans with Disability Act Amendments Act of 2008 or Section 504 of the Rehabilitation Act should contact the Student Resource Center for ADA Services to discuss academic accommodations. Appropriate academic accommodations are determined on an individual basis with careful consideration of the course learning outcomes and the documentation of the disability. For more information, students should visit the Student Resource Center for ADA Services on the Pensacola campus in building 6, room 603; call 850-484-1637; email ADAservices@pensacolastate.edu; or complete the online intake form in the ADA Services app within the MyPSC apps dashboard.

Emergency Statement: In the case of severe weather or other emergency, the College administration maintains communication with appropriate state and local agencies and makes a determination regarding the cancellation of classes. Notices of cancellation will be made through the College's PSC Alert system and on the College's website.

Flexibility Statement: It is the intention of the instructor to accomplish the objectives specified in the course syllabus. However, circumstances may arise which prohibit the fulfilling of this endeavor. Therefore, this syllabus is subject to change. When possible, students will be notified of any change in advance of its occurrence.

Non-Discrimination Statement: Pensacola State College does not discriminate against any person on the basis of race, color, ethnicity, religion, sex (as defined by applicable federal and state law), national origin, age, disability, genetic information, pregnancy, or marital status in its educational programs, activities, or employment. For inquiries regarding the College's nondiscrimination policies, contact the Civil Rights Compliance Officer at (850) 484-1759, Pensacola State College, 1000 College Blvd., Pensacola, Florida 32504.

Security Statement: Pensacola State College is committed to encouraging all members of the College community to be proactive in personal safety measures. In case of emergency, students should ensure that they are aware of the building exit closest to each of their classrooms, as well as all alternative building exits in case circumstances require using a different route.

Student Email Accounts: Pensacola State College provides an institutional email account to all students enrolled in courses for credit. PirateMail is the official method of communication, and students must use PirateMail when communicating with the College. In cases where companion software is used for a particular class, email may be exchanged between instructor and student using the companion software.