

**Bossier Parish Community College**  
**Master Syllabus**

**Course Prefix and Number:** PHSC 110

**Credit Hours:** 3

**Course Title:** Astronomy

**Course Prerequisites:** None

**Textbook:** Schneidre/Arny; Explorations, An Introduction to Astronomy 7th edition

**Course Description:**

A non-mathematical, descriptive introduction to astronomy, with emphasis on the solar system and related topics

**Learning Outcomes:**

At the end of this course, the student will

- A. utilize scientific concepts to describe astronomical bodies and theories and describe the relationship of the earth to the universe; and
- B. apply critical thinking to the analysis of current developments in astronomy theory and to the understanding of astronomical events.

To achieve the learning outcomes, the student will

1. express and understanding for a variety of objects in the universe and a sense of scale. (A,B)
2. describe the theories of the universe developed and held during the millennia of recorded history. (A)
3. describe the development of modern astronomy during the 17<sup>th</sup> century through the ideas of Kepler, Galileo, Newton and Halley. (A)
4. explain the electromagnetic spectrum and the different types of observing techniques used in astronomy. (A)
5. describe how astronomers locate objects in the sky, and time zone calendars. (A)
6. recognize and identify constellations of the Northern Hemisphere and their bright stars. (A)
7. discuss scale, structure and origins of the sun and solar system. (A,B)
8. describe and understand the earth on a planetary scale. (B)
9. describe the basic characteristics of the known planets, asteroids, and comets. (A)
10. identify and list characteristics of our sun, the types of stars, Milky Way and the interstellar medium. (A)
11. research and orally present on an astronomical object or current astronomy topic. (A,B)

**Course Requirements:** To earn a grade of “C” or higher the student must earn 70% of the total points for the course and meet all of the following course requirements.

- minimum 60% average on tests
- minimum score of 60% on topic presentation in class

**Course Grading Scale:**

A- 90% or more of the total points possible for the semester and meet all minimum course requirements

B- 80% or more of the total points possible for the semester and meet all minimum course requirements

C- 70% or more of the total points possible for the semester and meet all minimum course requirements

D- 60% or more of the total points possible for the semester and meet all minimum course requirements.

F- less than 60% of the total points possible for the semester and/or failure to meet one or more of the minimum course requirements

**Attendance Policy:** The college attendance policy is available at <http://www.bpcc.edu/catalog/current/academicpolicies.html>

**Nondiscrimination Statement**

Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

COORDINATOR FOR SECTION 504 AND ADA

Angie Cao, Student and Disability Services Specialist

Disability Services, F254, 6220 East Texas Street, Bossier City, LA 71111

318-678-6511

[acao@bpcc.edu](mailto:acao@bpcc.edu)

Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

Equity/Compliance Coordinator

Teri Bashara, Director of Human Resources

Human Resources Office, A-105

6220 East Texas Street

Bossier City, LA 71111

Phone: 318-678-6056

Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

Reviewed by R Bartlett Apr 6, 2021