

**LOUISIANA DELTA COMMUNITY COLLEGE
ACADEMIC AFFAIRS MASTER SYLLABUS**

DATE APPROVED OR REVISED: 1/24/07

Course Name: Foundations of Astronomy

Course Number: **PHYS 110**

Text: Chaisson, Eric, McMillan, Steve (2007). *Astronomy: A Beginners Guide to the Universe*. New Jersey: Pearson Prentice Hall

Lecture Hours: 3

Lab Hours:

Credit Hours: 3

Course Description: This course presents an integrated approach to basic astronomy and astronomical concepts. Astronomic concepts will include the following topics: light and properties of light, lenses, astrophotography, formation of the universe, galaxies, solar systems, and planets. Practical observational techniques of space objects are performed through use of telescopes. Sunspot activity is monitored via the internet and through observations of the sun using the appropriate equipment.

Pre-requisites: Eligibility to enroll in Math 099 or higher level math.

Co-requisites: none

Learning Outcomes: On completion of this course, the student will be able to:

- A. Identify and explain major concepts in astronomy and their various subtopics.
- B. Discuss orally and explain in writing how astronomy and its subtopics affect our everyday lives.
- C. Explain the importance of astronomy to careers, education, and society.
- D. Utilize the process skills and problem-solving skills to solve laboratory applications in astronomy.
- E. Explain and give examples of the relationship of science, technology, and society.

ASSESSMENT MEASURES:

- A. Written exams at 100 points each.
- B. Quizzes (announced and unannounced)
- C. Class work points: problem solving and laboratory activities, individual and/or group projects, and class participation (up to 150 points)
- D. Library assignment/report (one-half to one test grade)