ASTR 100 : INTRODUCTORY ASTRONOMY: OVERVIEW OF THE UNIVERSE

Transcript title

Introductory Astronomy

Credits

4

Grading mode

Standard letter grades

Total contact hours

60

Lecture hours

30

Lab hours

30

Recommended preparation

MTH 60 or MTH 98 or placement into Math level 10.

Course Description

An overview of the main ideas in our current view of the universe, and how they originated. Galaxies, quasars, stars, pulsars, and planets. Intended primarily for non-science majors interested in a one-quarter survey of classical and modern astronomy.

Course learning outcomes

1. Use ideas of energy and matter to perform appropriate calculations and evaluate scientific experiments and statements.

2. Discover ideas of force to perform appropriate calculations and evaluate scientific experiments.

3. Demonstarte the concept of light to perform appropriate calculations and evaluate scientific experiments or statements in the world around them.

4. Practice structural models to evaluate scientific experiments or statements in the world around them.

5. Show evolutionary models to perform appropriate calculations and evaluate scientific experiments or statements in the world around them.

Content outline

- 1. Our Place In The Universe
- 2. Key Concepts
- 3. Motion and Light
- 4. Solar Systems
- 5. Terrestrial Planets
- 6. Jovian Worlds
- 7. Small and Distant Worlds
- 8. The Sun
- 9. Star Stuff

- 10. Stellar Graveyard
- 11. Our Galaxy
- 12. Galaxy Evolution
- 13. Strange and Dark Matter
- 14. Beginning of Time
- 15. Life In The Universe
- 16. The Future

Required materials

May require a textbook.

General education/Related instruction lists

• Science Lab