



AMBROSE

SC 120 Introduction to Astronomy Winter 2012

Instructor: Dr. Leonid Braverman

E-mail: lbraverman@ambrose.edu

Office: TBA

Office Hours: TBA

Class Location: 2133

Class Time: M 6:30-9:30 pm

Credits: 3

Pre-Requisites: No

Text: N. Comins, W. Kaufmann III "Discovering the Universe", 7th to 9th edition, W. H. Freeman & Company.

Course Description: A comprehensive, descriptive survey of modern astronomy including elements of the history of astronomy. Topics include: solar system; the birth and death of stars; the Milky Way and other galaxies; cosmic rays, pulsars and supernovae; the concept of a black hole; exploding galaxies and quasars; the beginning and end of the universe; the possibilities of extraterrestrial life and interstellar communication. This course is not recommended for natural science majors.

The Course material is divided into 10 Units:

1. Discovery the Night Sky
2. Gravitation and Kepler's Laws
3. Light and Telescope
4. Earth
5. Moon and Other Terrestrial Planets
6. Outer Planets

7. Physical Properties of Light; Sun
8. Stars – Introduction
9. Stars – Lifecycle
10. Black Holes, Galaxies, Cosmology

Evaluation

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| Attendance | 5% |
| Quizzes (2) | 25% each |
| Final Exam | 45% |
| Total | 100% |

Note: Students must complete all components in order to complete the course.

Attendance

At Ambrose University College, students are expected to attend all classes or notify the instructor of a necessary absence (see regulations in the Academic Calendar)

Quizzes

Two fifty-minute quizzes that will test students' knowledge of materials covered to that point.

Final Exam

A cumulative two-hour test will be held on Monday, April 16, 2012 in 2133. There is a 2 hour test: 6:30 – 8:30 pm.