



## CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Reliability of Scientific Theory
- II. Celestial Sphere
- III. Seasons - Equinoxes and Solstices
- IV. History of Astronomy
- V. Uses of Astronomy
- VI. Electromagnetic Radiation
- VII. Albert Einstein - Theories of Relativity
- VIII. Doppler Effect
- IX. Astronomical Instrument
- X. Formation and Evolution of the Solar System
- XI. Moon
- XII. Mercury
- XIII. Venus
- XIV. Mars
- XV. Jovian Planets and their satellites - Atmosphere, Interior, etc.
- XVI. Space debris - Comets, Meteoroids, Meteors and Meteorites

## REQUIRED READING:

Abell, George O., David Morrison, and Sidney C. Wolff. Exploration of the Universe. 6th edition. Philadelphia: Saunders College Publishing, 1995.

**SUGGESTED READING:** Various articles from scientific journals

## REQUIRED WRITING:

Three take-home essays of at least 2 typed pages each as part of the two midterm and final exams.

## OUTSIDE ASSIGNMENTS:

**Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.**

Reading assignments of appropriate chapters will be given. Homework sets will be assigned. Three take-home essays may be given. A Saturday field trip may be planned.

## INSTRUCTIONAL METHODOLOGY:

### Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

**DISTANCE LEARNING:**

**This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.**

Yes  No

**If yes, check all that apply:**

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

**GRADING POLICY AND STANDARDS** (include methods of determining whether the stated objectives have been met by students):

100 points	quizzes	Quizzes	= 20%
100 points	First exam	First exam	= 20%
100 points	Second exam	Second exam	= 20%
<u>200 points</u>	Final exam	Final exam	= <u>40%</u>
500 points	Total	Total grade	= 100%

Less than 50% is failing. Letter grades are assigned using a statistical curve.

**IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?**

Yes  No  Number of times course may be taken for credit: \_\_\_\_\_

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

**CONTACT PERSON:**

Mark Lane, Associate Professor, Earth Sciences  
(760) 744 – 1150 Ext. 2951

SIGNATURES ON FILE