

## COURSE OUTLINE

Revision: Ted Coskey, May 2008

DEPARTMENT:	Academic Programs
CURRICULUM:	The Natural World, The Living World
COURSE TITLE:	Survey of Astronomy
COURSE NUMBER:	ASTR& 100
TYPE OF COURSE:	Academic Transfer
Special Requirement Met:	None
AREA(S) OF KNOWLEDGE:	The Natural World
COURSE LENGTH:	1 quarter
CREDIT HOURS:	5
LECTURE HOURS:	55
LAB HOURS:	0
CLASS SIZE:	35
PREREQUISITES:	None

## COURSE DESCRIPTION:

Emphasis on concepts of astronomy fundamentals to an understanding of our solar system, stars, galaxies, and the origin and history of the Universe.

## STUDENT LEARNING OUTCOMES ADDRESSED:

1. Communication - Read and listen actively to learn and communicate. The students should understand the text and they should be able to take good notes during the lecture

ASTR& 100 Survey of Astronomy  
February 2008

STUDENT LEARNING OUTCOMES ADDRESSED: (cont)

2. Information literacy – Access and evaluate information from a variety of sources and contexts, including technology. The student will need to do minor research which will involve at least one of the following: using a computer, book or magazine.

GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Have an understanding of the fundamental concepts of Astronomy.
2. Have developed an increased appreciation for astronomy and the Universe.

TOPICAL OUTLINE:

APPROX. HOURS

I. An overview	1
II. Light and telescopes	3
III. Motions in the sky	2
IV. The Earth	3
V. The moon	4
VI. The planets	14
VII. Asteroids, comets and meteors	1
VIII. Stars in general	2
IX. The sun	2
X. Multiple star systems	2
XI. Variable stars	2
XII. Stellar evolution	7
XIII. The Milky Way	3
XIV. Quasars	2
XV. The Cosmos	6
XVI. Extra Terrestrial life	<u>1</u>
Total	55

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ASTR & 100

Course Prefix and Number: Ast&100  
 Course Title: Survey of Astronomy

SLO #	Included in Course Objective Number	SSCC Student Learning Outcomes
SLO 1.1	1	Communication - Read and listen actively
SLO 1.2	1	Communication – (Speak and) <b>write effectively</b>
SLO 2.1		Computation - Use mathematical operations
SLO 2.2		Computation - Apply quantitative skills
SLO 2.3		Computation - Identify, interpret, and utilize higher level mathematical and cognitive skills
SLO 3.1		Human Relations - Use social interactive skills to work in groups effectively
SLO 3.2		Human Relations - Recognize the diversity of cultural influences and values
SLO 4.1		Critical Thinking and Problem Solving -
SLO 5.1	1,2	Technology - Select and use appropriate technological tools
SLO 6.1	2	Personal Responsibility - Be motivated and able to continue learning and adapt to change
SLO 6.2		Personal Responsibility - Value one's own skills, abilities, ideas and art
SLO 6.3		Personal Responsibility - Take pride in one's work
SLO 6.4		Personal Responsibility - Manage personal health and safety
SLO 6.5		Personal Responsibility - Be aware of civic and environmental issues
SLO 7.1		Information Literacy - Access and evaluate information
SLO 7.2	1,2	Information Literacy - Use information to achieve (personal,) <b>academic</b> , (and career goals, as well as to participate in a democratic society)

Prepared by: Ted Coskey  
 Date: May 2008