

\_\_\_\_\_ SOUTH SEATTLE COMMUNITY COLLEGE \_\_\_\_\_

Academic Programs

### COURSE OUTLINE

Revision: Ted Coskey, May 2008

DEPARTMENT: Academic Programs

CURRICULUM: The Natural World

COURSE TITLE: The Universe and the Origin of Life

COURSE NUMBER: ASTR 201

TYPE OF COURSE: Academic Transfer  
Special Requirement Met: Integrated Studies

AREA(S) OF KNOWLEDGE: The Natural World

COURSE LENGTH: 1 quarter

CREDIT HOURS: 5

LECTURE HOURS: 55

LAB HOURS: 0

CLASS SIZE: 35

PREREQUISITES: Appropriate placement testing. Some science background recommended.

#### COURSE DESCRIPTION:

Modern views of atomic and molecular evolution from the big bang theory through the formation of the solar system and emergence of life on earth. Includes discussions on extra terrestrial intelligent life and the ultimate fate of the cosmos.

ASTR 201 The Universe and the Origin of Life  
May 2008

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Communication - Read and listen actively (when the course is lecture as opposed to online) to learn and communicate. Write effectively for personal, academic and career purposes. The students need to read and understand the text as well as read online. When it is a lecture class, they need to be able to take good notes.
2. Human Relations - Use social interactive skills to work in groups effectively. They will need to interact in class or online.
3. Personal Responsibility – Be motivated and able to continue learning and adapt to change. Some students will talk to me about astronomy after the quarter has ended.
4. Information Literacy - Access and evaluate information from a variety of sources and contexts, including technology. They will do online searches and hopefully use books and magazines (possibly online).

GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Understand in some depth about the cosmos and about life in the universe.
2. Have a developed an increased appreciation of Astronomy

TOPICAL OUTLINE:	APPROX. HOURS
I. History	2
II. Distance	2
III. Stars, galaxies and quasars	6
IV. Life and evolution on earth	9
V. Life elsewhere	18
VI. The origins and fate of the Universe	<u>18</u>
Total	55

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DATE: May 2008

Course Prefix and Number: AST201  
 Course Title: The Universe and the Origin of Life

SLO #	Included in Course Objective Number	SSCC Student Learning Outcomes
SLO 1.1	1,2	Communication - Read and listen actively
SLO 1.2	1	Communication – (Speak) and write effectively
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	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		Technology - Select and use appropriate technological tools
SLO 6.1		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	1,2	Information Literacy - Access and evaluate information
SLO 7.2		Information Literacy - Use information to achieve personal, academic, and career goals, as well as to participate in a democratic society

Prepared By: Ted Coskey  
 Date: May 2008