FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	AST 2931
COURSE TITLE:	Selected Topics in Astronomy
PREREQUISITE(S):	None
COREQUISITE(S):	None
STUDENT ADVISING NOTES:	Depends Upon Topics
CREDIT HOURS:	1
CONTACT HOURS/WEEK:	1
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	1
Laboratory:	
Other _____:	
FACULTY WORKLOAD POINTS:	1
STANDARDIZED CLASS SIZE ALLOCATION:	30

CATALOG COURSE DESCRIPTION:

The open format of this course provides an opportunity to address various selected topics related to astronomy and space sciences. The course may be repeated for credit.

SUGGESTED TEXT(S):	Texts and readings at discretion of instructor and specific topic.
IMPLEMENTATION DATE:	Fall Term, 2007 (20081)
REVIEW OR MODIFICATION DATE:	Fall Term, 2008 (20091) – Outline Review 2007

COURSE TOPICS	CONTACT HOURS PER TOPIC
I. Specific Topic	
II. Nature of Science	
III. The Unity of Science	
IV. Theory and Observation - The Nature of Scientific Theories	
V. Science and Non-Science	
VI. Ethics in Science	
VII. Science and Technology in Society	
VIII. Origins / Evolution	
IX. Environmental issues	
X. Contemporary Issues and Applications (at the discretion of the instructor)	15
Total Hours	15

Florida State College At Jacksonville

General Education Requirements Categories & Courses Review Checksheet

Course Prefix and Number: AST2931	Semester Credit Hours: 1
Course Title: **Selected Topics in Astronomy**	
Discipline Area for the Course: □ **Communication** □ **Mathematics** □ **Social & Behavioral Sciences** □ **Humanities & Visual/Performing Arts** X **Natural Sciences** □ **Other-Designated Option**	

INTELLECTUAL COMPETENCIES:

X	**Reading**	X	**Speaking**	X	**Critical Analysis**	X	**Quantitative Skills**	X	**Scientific Method of Inquiry**
X	**Writing**	X	**Listening**	X	**Information Literacy**	X	**Ethical Judgment**	X	**Working Collaboratively**

KNOWLEDGE	Primary	Secondary	N/A	VALUE	Primary	Secondary	N/A
A. Global and Historical Knowledge & Understanding				Intellectual honesty	X		
• Comprehends a general knowledge of the nature, origins and contributions of major civilizations		X		Curiosity and openness to new ideas	X		
• Comprehends the workings and interrelations of personal, business and government economies			X	Recognition of one's own creative potential		X	
• Comprehends political, social and economic systems and their effects upon society		X		Acceptance of and respect for differences among people and cultures		X	
B. Cultural and Aesthetic Knowledge and Understanding							
• Comprehends the contributions of the arts and humanities to the human experience on a personal, national or global level			X	Civic Engagement		X	
• Comprehends the historical development of the arts and sciences	X			Lifelong Learning	X		
• Comprehends religious and cultural systems and their effects upon society		X					
C. Human Awareness and Understanding							
• Comprehends the dynamics of human behavior and the process of increasing self-awareness, growth and development		X					
• Comprehends the stages of human development and the dynamics of human relationships in diverse cultures		X					
• Comprehends the factors that promote physical, mental and social well-being		X					
D. Mathematics, Science and Technology							
• Comprehends the basic concepts and investigative processes of the natural sciences	X						
• Comprehends the breadth, significance and development of the mathematical sciences		X					
• Comprehends the ways science and technology have shaped and continue to reshape human cultures and the environment	X						

Name of Person Completing This Form: Michael D. Reynolds, Ph.D.
Signature: _____ Date: 20 April 2007

Florida State College At Jacksonville

Course Learning Outcomes & Assessment For All College Credit Courses

NOTE: Use either the Tab key or mouse click to move from field to field. The box will expand to accommodate your entry.

Section 1	
COURSE PREFIX AND NUMBER: **AST2931**	SEMESTER CREDIT HOURS: **1**
COURSE TITLE: **Selected Topics in Astronomy**	

Section 2

TYPE OF COURSE: (Click on the box to check all that apply)

- ☒ **AA Elective**
- ☐ **AS Required Professional Course**
- ☐ **College Prep**
- ☐ **AS Professional Elective**
- ☐ **AAS Required Professional Course**
- ☐ **Technical Certificate**
- ☐ **Other** _____
- ☐ **General Education: (For General Education courses, you must also complete Section 3 and Section 7)**

Section 3 (If applicable)

INDICATE BELOW THE DISCIPLINE AREA FOR GENERAL EDUCATION COURSES:

- ☐ **Communication**
- ☐ **Social & Behavioral Sciences**
- ☐ **Mathematics**
- ☐ **Natural Sciences**
- ☐ **Humanities**

Section 4

INTELLECTUAL COMPETENCIES:

- ☒ **Reading**
- ☒ **Speaking**
- ☒ **Critical Analysis**
- ☒ **Quantitative Skills**
- ☒ **Scientific Method of Inquiry**
- ☒ **Writing**
- ☒ **Listening**
- ☒ **Information Literacy**
- ☒ **Ethical Judgment**
- ☒ **Working Collaboratively**

Section 5 **LEARNING OUTCOMES**		**METHOD OF ASSESSMENT**
•	Explain and apply major concepts in natural sciences including scientific process, matter, thermodynamics, energy, cycles, evolution, ecology, scientific ethics and the relationship of science and society.	Written tests, reports and/or use of equipment to demonstrate student competency in field.
•	Demonstrate knowledge of scientific method.	Formulate problem, make observations, derive and test hypothesis and make conclusions.
•	Communicate scientific ideas through oral or written assignments.	Students use analytical reasoning skills to solve problems on written tests and/or laboratory work..
•	Interpret scientific models such as formulas, graphs, tables and schematics, draw inferences from them and recognize their limitations.	Written reports of lab experiments and/or written tests demonstrate student competency in the application of scientific knowledge.
•	Demonstrate problem solving methods in situations that are encountered outside of the classroom.	Students use demonstrations, group discussions, written tests, laboratory reports, research projects and/or field experiences to illustrate competence in recognizing and evaluating scientific processes.
•	Understand scientific principles as applied to daily options and opportunities.	Students prepare evaluations of legal opinions, voter decisions and community actions, focusing on scientific significance.

Section 6

Name of Person Completing This Form: Michael D. Reynolds, Ph.D.