

FLORIDA STATE COLLEGE AT JACKSONVILLE
COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	AST 2933
COURSE TITLE:	Selected Topics in Astronomy
PREREQUISITE(S):	None
COREQUISITE(S):	None
STUDENT ADVISING NOTES:	Depends Upon Topics
CREDIT HOURS:	3
CONTACT HOURS/WEEK:	3
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	3
Laboratory:	
Other _____:	
FACULTY WORKLOAD POINTS:	3
STANDARDIZED CLASS SIZE ALLOCATION:	30
CATALOG COURSE DESCRIPTION:	
<p>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.</p>	
SUGGESTED TEXT(S):	<u>Texts and readings at discretion of instructor and specific topic.</u>
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)	45
Total Hours	45



Course Prefix and Number: AST2933	Semester Credit Hours: 3
Course Title: <u>Selected Topics in Astronomy</u>	

Discipline Area for the Course:		
<input type="checkbox"/> Communication	<input type="checkbox"/> Mathematics	<input type="checkbox"/> Social & Behavioral Sciences
<input type="checkbox"/> Humanities & Visual/Performing Arts	<input checked="" type="checkbox"/> Natural Sciences	<input type="checkbox"/> Other-Designated Option

INTELLECTUAL COMPETENCIES:					
<input checked="" type="checkbox"/> Reading	<input checked="" type="checkbox"/> Speaking	<input checked="" type="checkbox"/> Critical Analysis	<input checked="" type="checkbox"/> Quantitative Skills	<input checked="" type="checkbox"/> Scientific Method of Inquiry	
<input checked="" type="checkbox"/> Writing	<input checked="" type="checkbox"/> Listening	<input checked="" type="checkbox"/> Information Literacy	<input checked="" type="checkbox"/> Ethical Judgment	<input checked="" type="checkbox"/> Working Collaboratively	

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

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.

<i>Section 1</i>	
COURSE PREFIX AND NUMBER: AST2933	SEMESTER CREDIT HOURS: 3
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

<i>Section 5</i>	
LEARNING OUTCOMES	METHOD OF ASSESSMENT
<ul style="list-style-type: none"> 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.
<ul style="list-style-type: none"> Demonstrate knowledge of scientific method. 	Formulate problem, make observations, derive and test hypothesis and make conclusions.
<ul style="list-style-type: none"> Communicate scientific ideas through oral or written assignments. 	Students use analytical reasoning skills to solve problems on written tests and/or laboratory work..
<ul style="list-style-type: none"> 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.
<ul style="list-style-type: none"> 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.
<ul style="list-style-type: none"> 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.**