

CATALOG INFORMATION

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Dept & Nbr: AST 204 Title: PLANETARY ASTRONOMY
Full Title: Planetary Astronomy

Units	Course Hours	Per Week	Nbr of Weeks	Course Hours	Total
Max: 3.0	Lecture	3.0	17	Lecture	51.0
Min: 3.0	Lab	0.0		Lab	0.0
	Contact DHR	0.0		Contact DHR	0.0
	Contact Total	3.0		Contact Total	51.0
	Non-contact DHR	0.0		Non-contact DHR	0.0

Title 5 Category: 01 AA Degree Applic
Grading: GC Credit course for grade or CR/NC
Repeatability: 00 No repeatability allowed or defined
Also listed as:

CATALOG DESCRIPTION:

The solar system including planets, their moons, the asteroids system and visiting comets. The physical / chemical features of each member of the solar system will be analyzed with reasons of what the solar history has accomplished through four and one-half billion years of time.

PREREQUISITES:

COREQUISITES:

RECOMMENDED PREPARATION:
No advisories.

LIMITS ON ENROLLMENT:

SCHEDULE OF CLASSES INFORMATION:

Come with me on a journey into the solar system, venture to planets we will visit in the 21st century. See the planetary system from the reference frame of a stationary space station-free from the defects of the atmosphere of earth. (Grade or CR/NC)
Transfer Credit: CSU; UC.

ARTICULATION and CERTIFICATE INFORMATION

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ASSOCIATE DEGREE: Effective: SPRING 1982 Inactive:
Area: A NATURAL SCIENCES

CSU GE: Effective: SPRING 1982 Inactive:
Transfer area: B1 PHYSICAL UNIVERSE

IGETC: Effective: FALL 1981 Inactive:
 Transfer area: 5A PHYSICAL SCIENCES

CSU TRANSFER: TRANSFERABLE Effective: FALL 1981 Inactive:

UC TRANSFER: TRANSFERABLE Effective: FALL 1981 Inactive:

CAN:

CERTIFICATE APPLICABLE: N NOT CERTIFICATE/MAJOR APPLICABLE

APPROVAL AND DATES

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Version 02 Submitted by: GERALD DEBANE Date: 10/08/1996
 Department approved: Date:
 Curriculum approved: 10/08/1996 Version approved: 10/08/1996
 Prerequisites approved: Last reviewed: 10/08/1996
 Term effective: FALL 1997 Last taught: FALL 2006 Inactive:

COURSE CONTENT

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OUTCOME AND OBJECTIVES:

1. Understand the physics of solar systems formations.
2. Comprehend the relationship between the bright-line spectrum, dark-line spectrum and planetary composition.
3. Know how to use the celestron/Meode/reflector telescope.
4. Perceive the future of astronomical space station exploration of the solar system.

TOPICS AND SCOPE:

1. The Seasons, Solstices, Equinoxes, and their Applications
2. The System of Angular Measurement
3. Early Cosmologies and Abstract Thinking
4. The Copernican Revolution
5. Problems with the Ptolemaic Models
6. The Solar System as we know it today
7. Rockets and Spaceships
 - a. Optional basic equation III
 - b. Calculating circular and escape velocities
8. Emission Lines and Bands
 - a. Optional basic equation IV
 - b. Wien's Law
9. Using the Telescope
10. Earth Astronomical Connection
11. Where did the Moon Come from
12. Planetology for Inner Planets Correlated with Outer Planets
13. Retrograde Motion
14. Solar System

ASSIGNMENTS:

READING ASSIGNMENT:

Students will be expected to read assigned chapters of textbook, library journals and outside library books.

WRITING ASSIGNMENTS:

1. Students will complete the problems at the end of assigned chapters.
2. Students are expected to write a chapter summary of 500 words (minimum).
3. Students are to write a summary of any planetarium show or astronomy seminar that has been applicable to the course and listed in the syllabus.

OUTSIDE ASSIGNMENTS:

Students are expected to spend 2 hours or more out of class reading the text, assigned journals, assigned library books for each hour of lecture.

ASSIGNMENTS THAT DEMONSTRATE CRITICAL THINKING:

The successful student will make critical associations between:
 1) Astronomy; 2) Physics; 3) Chemistry; 4) Biology and make decisions about the various theories of each discipline that closely associates with astronomy.

METHOD OF INSTRUCTION:

Lecture presentations will be supported with the following if available:
 1) Astronomy; 2) Physics; 3) Chemistry; 4) Biology and make decisions about the various theories of each discipline that closely associates with astronomy.

METHODS OF EVALUATION:

Students will take several exams which will account for 50% or more of the semester grade. The written work will account for 50% or less of the

BASIS FOR GRADING:

The assignment of a grade is based on the level of achievement of the outcomes and objectives of the course outline and is reflected in quantifiable terms in the course syllabus.

REPRESENTATIVE TEXTBOOKS:

Universe by Kaufman, Hardbound, 4th edition - Freeman Publishing

REASON FOR REVISION

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RESOURCES REQUIRED

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MISCELLANEOUS

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Advisory generate desc:	N	NO
Area department:	AST	ASTRONOMY
Audit flag:	N	NOT AUDITABLE
Basic skills:	X	NOT BASIC SKILLS
Classification:	A	Liberal Arts and Sciences
Cost level:	01	

Disciplines:		ASTRONOMY
Division:	02	MERIDITH RANDALL
Faculty service areas:		ASTRONOMY
Fee:	\$0.00	
In-service:	X	NOT IN-SERVICE
Level below transfer:	X	NOT APPLICABLE
Matric-requiring:	X	Exempt from assessment
Maximum class size:	0	
Maximum wait list:	0	
Method of instruction:	02	LECTURE
	99	OTHER/UNSPECIFIED METHOD OF INSTRUCTION
Non-credit category:	X	NOT APPLICABLE, CREDIT COURSE
Open entry/exit:	N	Not open entry/exit
Pacs activity:	1901	PHYSICAL SCIENCE GENERAL
Pacs program project:	0000	
Preq/coreq generate desc:	N	NO
Preq/coreq provisional:	N	NO
Preq/coreq reg check:	N	NO PREREQUISITE RULES EXIST
Repeat group id:		
Requires instructor sig:	N	INSTRUCTOR'S SIGNATURE NOT REQUIRED
SAM classification:	E	Non-occupational
Selected/special topic:	N	NOT A SELECTED TOPIC COURSE
Special class:	X	NOT A SPECIAL COURSE
TOP code:	1911.00	ASTRONOMY
Workload:	0.0000	