

**PALOMAR COLLEGE**  
**COURSE OUTLINE OF RECORD FOR**  
**DEGREE CREDIT COURSE**

X Transfer Course X A.A. Degree applicable course  
(check all that apply)

**COURSE NUMBER AND TITLE:** Astronomy 197 The Universe: Contemporary Topics in the Space Sciences

**UNIT VALUE:** 1-2-3

**MINIMUM NUMBER OF SEMESTER HOURS:** 16-32-48

**BASIC SKILLS REQUIREMENTS:** Appropriate language skills

**ENTRANCE REQUIREMENTS:** None

**PREREQUISITE:** None

**COREQUISITE:** None

**RECOMMENDED PREPARATION:** None

**SCOPE OF COURSE:**

Selected topics in Astronomy and Space Sciences, emphasizing current research and discoveries. Refer to the class schedule for specific topics covered. May be taken four times.

**SPECIFIC COURSE OBJECTIVES:**

1. To make the students aware of the universe around them and their place in it.
2. To give the students an understanding of how a scientist investigates the universe and how it works.
3. To show the students how man's ideas of the sky have drastically changed from his first interest to modern relativistic laws and how new ideas will continue to change our view of the sky.

**CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:**

Since the topic varies, this will be filed on an individual class basis.

For Example: Properties of stars

Sun – surface and atmosphere  
Internal structure  
Origin – Interstellar material  
Evolution  
Relativity

**REQUIRED READING:**

Since the topic varies, this will be filed on an individual class basis, but will consist of independent comprehension of book and/or articles prepared for college level investigation.

For example: Voyages to the Stars and Galaxies, Fraknoi, Morrison & Wolff, Saunders College Publishing, 475 pages.

**SUGGESTED READING:**

Various articles in Scientific Journals prepared for college level investigation.

For example: Scientific American

**REQUIRED WRITING:**

A 2-page essay as part of the exam and a 7-10 page research paper.

**OUTSIDE ASSIGNMENTS:**

**Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.**

**INSTRUCTIONAL METHODOLOGY:****Check all that apply:**

- lecture  
 laboratory  
 lecture-laboratory combination  
 directed study

**DISTANCE LEARNING:**

**This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.**

Yes  No

**If yes, check all that apply:**

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)  
 Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)  
 Two-Way Video Conferencing (Two-way interactive video and audio)  
 One-Way Video Conferencing (One-way interactive video and two-way interactive audio)  
 Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

**GRADING POLICY AND STANDARDS** (include methods of determining whether the stated objectives have been met by students):

- 33% exam – multiple choice & essay  
 33% paper  
 33% final exam – multiple choice & essay

**IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?**

Yes  No  Number of times course may be taken for credit: 4

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

Section number 58161 ( c )

**CONTACT PERSON:**

James Pesavento  
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**SIGNATURES:**

**By signing this form, I certify that this course outline of record meets all the minimum requirements for associate degree credit courses as specified in Title 5 Section 55002.**

SIGNATURES ON FILE