

**Astronomy 10: “Stellar Astronomy”**

Class Times                      Section 01    8:30-9:20 a.m. MTWThF                      Call No. 0202

Location:                              The Fujitsu Planetarium  
Instructor:                           Paul J. Olejniczak (Oles)  
Office:                                    S48A  
Phone:                                  408-864-8676  
Email:                                    olejniczakpaul@deanza.edu  
Office Hours:                        11:30-1:15 p.m. Tue/Thu and 9:30-10:30 a.m. Fri.

Textbook:                              “Stars & Galaxies” by Michael A. Seeds, 6<sup>th</sup> Edition  
Thompson-Brooks/Cole Publisher

Web Page:                              oles.pageout.net

Description:

Astronomy 10 is an introductory-level course which concentrates on stars, galaxies and the universe at large. It examines how astronomers have come to understand as much as we do about the cosmos. The course has no astronomy, physics or math prerequisites and is taught in a “non-mathematical” manner. Credit for Astronomy 10 is fully transferable to both the UC and CSU systems.

This course is divided into two major parts. The first part covers stellar measurements and stellar motion – along with selected topics from the history of astronomy that pertain to stellar astronomy. The second part of the course is devoted to modern stellar astronomy. Specific topics includes stellar evolution including pulsars and black holes, star clusters, variable stars, our Galaxy and cosmology.

Evaluation:

A student's final grade will be based upon four (4), fifty (50) questions each, objective-type exams including a final examination. The lowest of the first three test scores will be dropped and the final grade will be a simple average of the remaining three (3) exams. The final examination is comprehensive, mandatory and the score will not be dropped. Sample exams from previous quarters are posted online.

Notes regarding examinations:

- Scantron forms and #2 pencils are required for all examinations. It is the responsibility of the student to mark answers clearly and to fully erase mismarked answers. Scantron forms will not be rescored.
- Graded Scantron forms should be retained by students as proof they have taken a test.

Letter Grades:      A = 89% +      B = 79-88%      C = 69-78%  
                                  D = 59-68%      F = 0-58%

Extra Credit:

- Extra credit questions will be provided on each examination and will be drawn from material in instructional videos presented during class.
- Optional extra credit assignments and projects will be also be offered during the quarter.

Important

Dates:

Jan 05	Mon	Classes begin
Jan 19	Mon	Holiday – No Class
Jan 26	Mon	Test 1 on Chapters 1, 2, 5 & 6
Feb 16	Mon	Holiday – No Class
Feb 13	Fri	Holiday – No Class
Feb 17	Tue	Test 2 on Chapters 7, 8, 9, 10 & 11
Mar 09	Mon	Test 3 on Chapters 12, 13, 14 & 15
Mar 26	Thu	Final Exam - 7:00-9:00 a.m.

Class and Lecture Schedule      (Date indicates...’The Week of ...’)

Jan 05	Mon	Orientation & Introduction to Planetarium Chapter 1: “What Are We and How Do We Know?”
Jan 12	Mon	Chapter 2: “The Sky”
Jan 19	Mon	Holiday – No Class
Jan 20	Tue	Chapter 5: “Gravity” Chapter 6: “Telescopes”
Jan 26	Mon	<b>Test 1 on Chapters 1, 2, 5 &amp; 6</b> Chapter 7: “Atoms and Starlight”
Feb 02	Mon	Chapter 8: “The Sun” Chapter 9: “The Family of Stars”
Feb 09	Mon	Chapter 10: “The Interstellar Medium” Chapter 11: “The Formation of Stars”
Feb 13	Fri	Holiday – No Class
Feb 16	Mon	Holiday – No Class
Feb 17	Tue	<b>Test 2 on Chapters 7, 8, 9, 10 &amp; 11</b> Chapter 12: “Stellar Evolution”
Feb 23	Mon	Chapter 13: “The Deaths of Stars” Chapter 14: “Neutron Stars and Black Holes”

Mar 02	Mon	Chapter 15: The Milky Way Galaxy”
Mar 09	Mon	<b>Test 3 on Chapters 12, 13, 14 &amp; 15</b> Chapter 16: “Galaxies” Chapter 17: “Galaxies with Active Nuclei)
Mar 16	Mon	Chapter 18: “Cosmology in the 21 <sup>st</sup> Century”
Mar 23	Mon	Review for Final Examination
<b>Mar 26</b>	<b>Thu</b>	<b>Final Exam - 7:00-9:00 a.m.</b>

Rules & Regulations:

Regular class attendance is required. Class attendance will be recorded each class period. Students missing three (3) consecutive classes will be dropped from the class.

The use of cell phones or pagers is strictly forbidden during class unless prior arrangements have been made with the instructor.

No food or drinks of any kind are permitted in Planetarium.

Make-up examinations will not be administered.

- A missed test – for any reason - will be counted as the student’s one allowed dropped test. There will be no exceptions.
- Students missing two tests have the option of withdrawing before the final withdrawal date or receiving an “F” grade for the class.

Last Day to Withdraw with a “W” is Feb 28, 2009

