

PIMA COLLEGE - EAST

ASTRONOMY/PHYSICS
Fall Semester 2009

Course: AST 102 Time: 08:40 - 09:55 T Th 10262 Room: M1
AST 102LB TBA 10263
Evening Observation as schedule

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Week of	Date	Assignments		Topic
		Reading	Lab	
1	24 Aug	1		Introduction
2	31 Aug	5	1	Light/Spectra
3	7 Sept	18	2	Sun/Prop. of Stars
4	14	19	3	H-R Diagram
5	21		4	EXAM 1 /Stellar
6	28	21	5	Evolution
7	5 Oct	22	6	continued
8	12	23	7	Nebulae
9	19	24	8	Multi Star Sys
10	26		9	EXAM 2/ Clusters
11	2 Nov	25	10	Associations
12	9	26	11	Milky Way
13	16	27	12	Local Galaxies
14	23	28	OSM	Distant Galaxies
15	30	29	OSM	Cosmology
	10 Dec			FINAL EXAM

Any Text: i.e. Universe, any edition. By William Kaufmann. W.H. Freeman. Free downloads.
Lab Text: Lab packet for AST 102LB contains lab activities. Supplied for you. OSM - observation session makeup. This syllabus is only a guide to the sequence of topics which will be covered. The reading assignments are your responsibility. Class lecture will dictate the actual topics for quizzes and exams.

ASTRONOMY GRADE AST102/AST102LB

Lecture

The lecture grade will be based on the following:

There will be three exams. Exam three will be a comprehensive final. The average of these exams will be 40 % of your final lecture grade.

There may be a weekly quiz given at the beginning of class. This quiz will cover the current class material. The average of the quizzes will be 40 % of your final lecture grade, for example:

Exam average is 79 % Quiz average is 81 %

Exam Average 79% X .40 = 31.6 % Quiz Average 81% X .40 = 32.4 %

There will be one computer simulation. This is a major project based on knowledge gained during the class. This project will be 20 % of your final grade.

The **computer simulation** activity will be assigned a grade of

0 % if it is not completed

70 % if it is completed and the results are greater than 15% of the accepted value and the work done meets the standards of the discipline as determined by the professor

100 % if it is completed and the results are within 15% of the accepted value and the work done meets the standards of the discipline as determined by the professor

For example, if the Simulation Grade is 70 %

70 % X .20 = 14 % This is 20 % of the final lecture grade.

The **final average** for the lecture is:

Exam 31.6 % + Quiz 32.4 % + Simulation 14 % = 78 %

The assignment of the final lecture grade will be as follows:

90 – 100% = A

80 – 89% = B

70 – 79% = C

50 - 69% = D

Below 49% = F

Laboratory

The laboratory grade will be based on the following:

There will be ten activities. These activities will be from the lab packet materials found in your lab packet and videos that are on reserve in the library.

There will be three REQUIRED observation sessions. These sessions will be made from the college's observatory. The observations will be done during the evening and should be spread through out the semester. The observations required will be detailed in class.

The average will be taken of the ten lab activity grades plus the three observation sessions.

The observation sessions are worth 100% each if completed. Each lab activity is graded separately and will receive a grade from 0% to 100%. There will be 13 grades that will be averaged. That average will be assigned a grade as follows:

90 – 100% = A

80 – 89% = B

70 – 79% = C

50 - 69% = D

Below 49% = F

There are no make up exams or quizzes. You will be given the dates of the exams during the first class meeting for your planning purposes. It is assumed you will be at every class meeting. If you miss a class you are responsible to get the class notes missed.

Study groups are very helpful and I encourage you to form them during the first week of class.

AST 102LB Laboratory Assignment Due Dates and Grade Sheet
Pima College-East Campus
Fall 2009 Semester

Week	Due Date	Lab Title	Grade Received
1	1 Sept	1 A Survey of Math	_____
2	8		_____
3	15	2 Spectra	_____
4	22	3 The Sun Our Star	_____
5	29	4 Stellar Parallax	_____
6	6 Oct	5 <u>The Lives of Stars</u>	_____
7	13	6 The HR Diagram	_____
8	20	7 The Brightness of Stars	_____
9	27		
10	3 Nov	8 Variable Stars	_____
11	10	9 The Material Between Stars	_____
12	17	10 <u>The Edge of Forever</u>	_____
13	24		
14	1 Dec	PLEIADES SIMULATION	
		OBSERVATIONS	
	22 Sept	#1 Visual Drawing	_____
	27 Oct	#2 Photographic	_____
	8 Dec	#3 CCD electronic imaging	_____

PLEIADES SIMULATION is the computer simulation activity that was explained to you during class. The grade you receive on it is part of the lecture grade NOT the lab grade. The three observations are part of the lab grade. Labs 5 and 10 are based on videos and can be found in the library reserve section or the observatory student work area. Labs not turned in on time will be given a grade of 0%.

Name: _____

