

pass (distributed by me) to give you a one class extension on the homework (it is still due). Homework turned in late (without a homework pass) will receive a 20% penalty per class day it is overdue.

Graduate students will typically have a single extra question on each homework which only graduate students are expected to do.

You should attempt to do the homework by yourself, but if you get stuck, you should feel free to talk to your friends in the class, or myself. In particular, you should feel free to check your final answers with your friends. You must ultimately understand and have performed all the calculations in your homework yourself, but I do not mind if others have helped you with it.

Grading: The two tables at right are a not necessarily accurate guess as to what my grading scheme will be. In particular, I reserve the right to grade on a sliding scale.

Grading Breakdown	
Homework:	40%
Midterm:	20%
Class Part:	10%
Final:	30%
TOTAL:	100%

Grading Scale			
94% A	80% B-	67% D+	
90% A-	77% C+	63% D	
87% B+	73% C	60% D-	
83% B	70% C-	<60% F	

For graduate students, because there are no D grades, anything below 70% is an F.

World-Wide-Web: Materials for this course can be found on our home page at

<http://users.wfu.edu/ecarlson/cosmo2>

This includes handouts, slides, homework and solutions, old tests, and links to recorded lectures.

Tentative Schedule:

Aug/Sept	28	30	1	Introduction, star basics, stellar evolution
September	4	6	8	Giant stars and later stages, stellar clusters, geometric distance
September	11	13	15	Standard candle distances, Milky Way basics, the Disk
September	18	20	22	The bulge, nucleus, and halo, gravity and orbits, rotation, dark matter
September	25	27	29	Spiral arms, clusters, shapes of galaxies, galaxy classification
October	2	4	6	Galaxy collisions, active galaxies, galaxy clusters and superclusters
October	9	11		Hubble's law, Friedmann equations, review {Fall break}
October	16	18	20	review, Midterm , scale factor, expansion
October	23	25	27	General relativity, dark energy, the big bang, the CMBR
Oct/Nov	30	1	3	Matter and radiation eras, recombination, primordial nucleosynthesis
November	6	8	10	Particle physics, particles in the early universe
November	13	15	17	The early universe, inflation, origin of everything, structure formation
November	20			What is dark matter? {Thanksgiving break}
Nov/Dec	27	29	1	Baryogenesis, the fine-tuned universe, multiple universes
December	4	6	8	Cosmic eschatology, review
December			15	Final 2:00 PM