

Exams: There will be a midterm and a final. Both tests will include both quantitative and essay questions. You should bring a calculator on exam days. The midterm will be around March 3, and the final will be as scheduled on Friday April 30 at 2:00. If possible, I would like to schedule the midterm for two hours one evening in the first week of March

Homework: Homework will occur regularly. It is to be done and turned in at the start of each class period. Homework will normally be posted on the web at least one week before it is due.

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.	<u>Grading Breakdown</u>	<u>Grading Scale</u>
	Homework: 40%	93% A 80% B- 67% D+
	Midterm: 20%	90% A- 77% C+ 63% D
	Class Part: 10%	87% B+ 73% C 60% D-
	<u>Final: 30%</u>	83% B 70% C- <60% F
	TOTAL: 100%	

World-Wide-Web: Materials for this course can be found on our home page at <http://www.wfu.edu/~ecarlson/cosmo>.

Tentative Schedule:

January	13 15	Units, Orbits, Atoms, Light
January	20 22	Light and Atoms, Doppler effect, Photons
January	25 27 29	Statistical Mechanics, Black body radiation
February	1 3 5	Distance methods for our galaxy
February	8 10 12	Motion of stars within our galaxy, shape and structure, dark matter
February	15 17 19	Galaxy classification and composition, Virial Theorem, Galactic Dynamics
February	22 24 26	Active Galaxies, Galaxy Collisions, Structure in the Universe
March	1 3 5	Review, Midterm , To be announced
March	15 17 19	Hubble's Law – expansion of the Universe – age and future
March	22 24 26	The Big Bang, time-temperature relationships, recombination
March.	29 31	Temperature fluctuations, density fluctuations, structure formation
April	5 7 9	Neutrino decoupling, nucleosynthesis, baryogenesis
April	12 14 16	What is Dark Matter? The very early universe
April	19 21 23	Grand Unification, Inflation, the Origin of the Universe
April	26 28	To be Announced
April	30	2:00 Final Exam