Astronomy 1504/1514
Fall 2010

Professor: **Dr. John Cowan**
Room 229, NH, Tel. 325-3961 ext. 36229
Office Hours: 1:30-3:00 M, W, or by appointment.

Text: Horizons: Exploring the Universe, by Seeds & Backman (11th Edition)

EXAMS:
I September 17
II October 13
III November 5

FINAL EXAM:
Wednesday, December 15 (7:30-9:30pm)

Date	Topic	Page References
Aug 23	Introduction	
Aug 25	Forces in Nature	
Aug 27	Light	69-72
Aug 30	Telescopes	72-93
Sep 01	Starlight and Atoms	94-111
Sep 03	" "	" "
Sep 08	Nature of a Star	134-139, 174-178
Sep 10	Nuclear Energy in Stars	119-123
Sep 13	The Sun	112-118, 123-133
Sep 15	"	" "
Sep 17	**Exam I**	
Sep 20	HR Diagram	139-145
Sep 22	Formation of Stars	158-159, 163-171, 178-183
Sep 24	Red Giants	171-173, 184-196
Sep 27	White Dwarfs	196-197
Sep 29	Variable Stars	145-157, 233-240, 197-200
Oct 04	Supernovae	201-209
Oct 06	Pulsars	210-221
Oct 08	Black Holes	222-232
Oct 11	" "	" "
Oct 13	**Exam II**	

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Oct 15	Our Galaxy	240-258
Oct 18	Interstellar Medium	159-163
Oct 20	Types of Galaxies	259-273
Oct 22	Active Galaxies	282-285
Oct 25	Quasars	285-294
Oct 27	Quasars & Clusters of Galaxies	“ “, 273-281
Oct 29	Relativity	
Nov 01	Cosmology	295-319
Nov 03	Cosmology	“ “
Nov 05	**Exam III**	
Nov 08	The Planets	323-329
Nov 10	Origin of the solar system	320-323, 329-342
Nov 12	History of Astronomy	42-58
Nov 15	" "	" "
Nov 17	Origin & History of the Moon	352-358
Nov 19	" "	" "
Nov 22	Mercury & Venus	358-367
Nov 29	Mars	367-377
Dec 01	The Outer Planets	378-406
Dec 03	Asteroids, Meteorites and Comets	407-424
Dec 06	How to contact ET?	425-442
Dec 08	Intelligent Life in the Universe	" "
Dec 10	Review	
Dec 15	**FINAL EXAM - 7:30-9:30 pm**	

HOW GRADES ARE DETERMINED!

You get to drop the lowest score of the 3 exams. (You MUST take the FINAL!) Also, note that since you get to "drop" one of your exams, makeups are ***not*** normally given. The two highest exam grades are then worth 50% of your grade, and the final is worth 30%. You will also receive a grade based on your performance in the discussion/lab sections, worth 20% of your total grade. You will have then earned some number of points out of a total of 100. Your final letter grade will be determined on the basis of that total. While the final grades will be "curved," if you score 90-100 you can be sure of receiving an A. Likewise, if you score 80-89 you will receive no lower than B, 70-79 no lower than C, 60-69 no lower than D.

TAKING EXAMS: You must bring a picture ID and a pencil for the exam. No one will be admitted (i.e. allowed to start the exam) after the first person has completed the exam and left the classroom.

Cell Phones MUST be turned off during class.

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