

**PHYS 1130 – Introduction to Astronomy
Fall 2009**

MW 9:30-10:45 p.m.

Health and Human Services Bld. Room 281

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Office Hours: Mondays and Wednesdays 11 a.m. – noon in Burson 102
or by appointment in Grigg 333.

Class syllabus, reading assignments, announcements, etc. will be posted on our class Blackboard page. You can also check your grades on this page. You can access Blackboard through 49er Express.

TEXT AND REQUIRED MATERIAL:

- *Astronomy: A Beginner's Guide to the Universe*, 6th Edition, Chaisson and McMillan, available at the bookstore
- PRS Audience Feedback Transmitter (your clicker). New or used, available at the bookstore.
- You will need a calculator capable of taking a cube root.

GRADING:

In-class Clicker Questions (Each Day Weighted Equally - Drop 2 Lowest)	15%
** WE WILL BEGIN USING CLICKERS ON WEDNESDAY SEPT. 9th **	
Exam 1: Monday, September 28	20%
Exam 2: Monday, October 26	20%
Exam 3: Wednesday, November 18	20%
Comprehensive Final Exam: Wednesday, Dec. 16, 8 – 10:30 AM	25%

TOTAL 100%

- **YOU ARE RESPONSIBLE FOR ALL MATERIAL COVERED IN CLASS AND IN ASSIGNED READING.**
- **THERE ARE NO MAKE UP EXAMS OR QUIZZES. NO EXCEPTIONS. PLAN ACCORDINGLY.**
- **YOU NEED TO BRING YOUR CLICKER TO CLASS EVERYDAY!**
- Course grades are assigned using a 10-point grading scale: A = 90.0-100.0, B = 80.0-89.9, etc.
- Students will be required to show their University ID upon turning in exams.
- Do not come to class late.
- No recording devices or note takers without prior approval.
- Turn cell phones off during class.
- No talking during lecture.
- There is no "extra credit" for this course.

You must do your own work on in-class exams and the final exam. Failure to do so will be a violation of the Honor Code. There will be consequences. See below.

All UNC Charlotte students have the responsibility to be familiar with and to observe the requirements of The UNC Charlotte Code of Student Academic Integrity (see the Catalog). This Code forbids cheating, fabrication or falsification of information, multiple submission of academic work, plagiarism, abuse of academic materials (such as Library books on reserve), and complicity in academic dishonesty (helping others to violate the Code). Any further specific requirements or permission regarding academic integrity in this course will be stated by the instructor, and are also binding on the students in this course. Students who violate the Code can be punished to the extent of being permanently expelled from UNC Charlotte and having this fact recorded on their official transcripts. The normal penalty is zero credit on the work involving dishonesty and further substantial reduction of the course grade. In almost all cases, the course grade is reduced to "F." If you do not have a copy of the Code, you can obtain one from the Dean of Students Office or access it online at <http://www.legal.uncc.edu/policies/ps-105.html>. Standards of academic integrity will be enforced in this course. Students are expected to report cases of academic dishonesty they become aware of to the course instructor who is responsible for dealing with them.

Academic honesty and integrity are essential to the existence and growth of an academic community. Without maintenance of high standards of honesty, members of the instructional faculty are defrauded, students are unfairly treated, and society itself is poorly served. Maintaining the academic standards of honesty and integrity is ultimately the formal responsibility of the instructional faculty; and this responsibility is shared by all members of the academic community.

UNC Charlotte strives to create an academic climate in which the dignity of all individuals is respected and maintained. Therefore, we celebrate diversity that includes, but is not limited to ability/disability, age, culture, ethnicity, gender, language, race, religion, sexual orientation, and socio-economic status.

PHYS 1130 - INTRODUCTORY ASTRONOMY Tentative Schedule

	Date	Subject	Reading Assignment
M	August 24	Foundations I (Daily Motions)	p. 3 – 7; Appendix 1
W	August 26	Foundations I (Seasons)	p. 8 - 11
M	August 31	Foundations I (Moon Phases and Eclipses)	p. 14 - 21
W	September 2	Chapter 1 (Sci. Method, Models of Solar System)	p. 18 - 21; p. 25 - 39
M	September 7	No Class	Labor Day
W	September 9	Chapter 1 (Models of Solar System; Newton)	p. 25 - 39
M	September 14	Chapter 2 (Light)	p. 43 - 65
W	September 16	Chapter 2 (Light and the Atom)	p. 43 - 65
M	September 21	Chapter 3 (Telescopes)	p. 69 – 82; p. 89 - 95
W	September 23	Chapter 4 (The Solar System)	p. 101 - 131
M	September 28	EXAM 1	Covers Foundations 1 and Chapters 1-3
W	September 30	Chapter 5 (Earth and Moon)	p. 135 - 159
M	October 5	Chapter 5 / Chapter 6	p. 135 – 159; p. 163-189
W	October 7	Chapter 6 (Terrestrial Planets)	p. 163 - 189
M	October 12	NO CLASS	FALL BREAK
W	October 14	Chapter 7 / Chapter 8	p. 193 – 212; p. 215 - 237
M	October 19	Chapter 7 / Chapter 8	p. 193 – 212; p. 215 - 237
W	October 21	Chapter 9 (The Sun)	p. 243 - 263
M	October 26	EXAM 2	Covers Chapters 4 - 8
W	October 28	Chapter 9 (The Sun)	p. 243 - 263
M	November 2	Chapter 10 (Stars)	p. 268 - 287
W	November 4	Chapter 11 (ISM and Star Formation)	p. 291 - 315
M	November 9	Chapter 12 (Low Mass Stars)	p. 319 - 329
W	November 11	Chapter 12 (High Mass Stars)	p. 330 - 343
M	November 16	Chapter 13 (Black Holes)	p. 348 - 371
W	November 18	EXAM 3	Covers Chapters 9 - 13
M	November 23	Chapter 14 (Milky Way)	p. 378 - 399
W	November 25	NO CLASS	THANKSGIVING BREAK
M	November 30	Chapter 15 (Galaxies)	p. 403 - 427
W	December 2	Chapter 15 / Chapter 16	p. 403 – 427; p. 432 - 453
M	December 7	Chapter 16 (Dark Matter)	p. 432 - 453
W	December 9	Chapter 17 (Cosmology)	p. 457 – 473; p. 478 - 481
W	December 16	FINAL EXAM (All Chapters)	8 – 10:30 AM