

Syllabus for Ast 3113, *Galaxies and Cosmology* (Spring 2013)

Course Information

Instructor: Prof. Yun Wang, NH 327, wang@nhn.ou.edu,
(405) 325-3961, ext 36327 (office).

Textbook: *Modern Astrophysics*, by Carroll & Ostlie,
Addison-Wesley Publishing Co. (2nd edition)

Meeting Place and Time: 1:30-2:45pm, Tue and Thurs, NH 203

Office Hours: Drop by any time. All students are strongly encouraged to discuss with Prof. Wang anything related to this course.

General Description

This is part two of the introductory astrophysics course for astronomy/astrophysics majors. It is assumed that the students have taken part one of this course, have the appropriate physics background to understand the course material, and are comfortable with calculus and mathematical manipulations. Students who have not taken part one of this course may be able to perform well in this course if they have a strong physics background and are willing to do extra reading in the beginning to catch up on the basic terminology of astronomy.

Course Objective

The goal of this course is to enable the students to acquire a basic understanding of modern astrophysics, ranging from galaxies to the universe. This will provide the students with a perspective of the physical universe, and a sound foundation for further studies in astronomy.

Course Requirements

Attendance: required. Students must sign in at each lecture.

Homework Policy: Late homework will not be accepted and will receive no credit.

Please write your homework clearly and neatly; illegible homework will not be graded and will receive no credit. Students are encouraged to discuss problems with each other, but each student is expected to work out and write up the problems independently.

Two Midterm Exams: TBD

Final Exam: Tuesday, May 7, 1:30 PM - 3:30 PM

Grade: The course grade will consist of **10% attendance, 25% homework, 30% midterm exams, 35% final exam.**

Primary Reference Books (on reserve at the Phys & Astronomy Library):

Introduction to Cosmology, by Barbara Ryden.
Addison Wesley, 2003

Introduction to Cosmology, by Matts Roos.
John Wiley & Sons, 2003 (3rd edition)