

AST 322 Lect

Intro Cosmo II

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Java Tool:
Hubble at $v=c$

[Download AHaH Java code](#)

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Contact the Instructor:
(480) 965-7143 or:
(480) 965-5081

[Prof. Rogier A. Windhorst](#)

INTRO ASTROPHYSICS/COSMOLOGY II -- AST 322 -- Spring 2024 -- SLN 12079

AST 322 in Spring 2024 will be held in-person, but we have a back-up option for Zoom only in case people get sick and need to Zoom in (ask your TA to active Zoom just before class starts).

We will make sure that you will all learn the required class materials, and get your deserved grades despite the pandemic. You will enjoy the AST 322 homework sets and Term Project topics. Special attraction in Spring 2024: since three Nobel prizes in Physics were given out (in 2017, 2019 and 2020) for the topic of Black Holes and Cosmology, respectively, there will be three possible papers for Term Project topics on Black Holes. (Two other term paper topics have yet to earn the Nobel prize, so do your very best on that Term Project if you chose that topic!). Two other possible Term Project topics have also earned Nobel prizes in the past, so you will work with state-of-the-art materials whichever Term Project topic you chose. But before you can do so, you will have to do the 7 H/W sets on the book's chapter 1--6, which will involve some 200 level math. Our purpose of the math is not to annoy you, but to make the physics that rules the universe understandable. So bear with us, we will try to it make all as digestible and interesting as possible.

Class Location and Time: PSF-123; TuTh 3:00-4:15 pm. Backup Zoom link: <https://asu.zoom.us/j/7191824655>

Instructor: Regents' and Foundation Professor Rogier A. Windhorst, ASU School of Earth & Space Exploration.

Contact Info: Contact information for the class Instructor, TAs, and possible Tutor (if you need one) can be found on the Contacts page.

Syllabus: The AST 322 class rules are summarized under the Syllabus button.

Schedule: An outline for AST 322 is given under the Schedule button. We will follow this schedule in principle, but some changes may be announced later. I strongly urge you to read the chapter of the book (on the day) *before* the corresponding lecture will be given.

Class Materials: These are given under the Scripts button, and will include details on the textbook that we will use, PDF or PPT slides of all figures in the text book, and detailed notes on all chapters in the textbook.

Web Links: Some URL's relevant to AST 322 are given under the Links button, and include some of the best Hubble Space Telescope images that we will use this semester.

MAIN CLASS URL: <http://windhorst322.asu.edu/>

MIRROR SITE (if main URL is down): <http://www.asu.edu/clas/hst/classes/ast322/>

WARNING: This site is under development, and it will get updated during the semester. *The Web-version thus supersedes any printed version, although I will likely not change H/W and Term Project due dates.* Remember to always refresh or restart your browser to see any new changes we made.