

AST 322 Lect**Intro Cosmo II****Welcome****Contacts****Syllabus****Schedule****Lab Scripts****Links****Java Tool:****Hubble at v=c**[Download AHaH Java code](#)Pages last updated:
Feb. 13, 2020Contact the Instructor:
(480) 965-7143 or:
(480) 965-5081[Prof. Rogier A. Windhorst](#)**AST 322 -- URL's relevant to Astrophysics/Cosmology II -- Spring 2020**

Since the ASU administration has now told us to hold class online-only for a few weeks, we will continue to hold both our class (see Syllabus, Schedule, Lab Scripts) and office hours (see Contacts) via the same Zoom link below during the regular posted hours. [How to use Zoom, but start at the link below:](#)

Join from PC, Mac, Linux, iOS or Android: <https://asu.zoom.us/j/7191824655>

Make sure you use your Firstname+Lastname to identify yourself in Zoom, so you can get credit for class attendance, or extra credit for excellent in-class questions or answers.

Or join by phone (for higher quality, dial a number based on your current location): US: +1 669 900 6833 or +1 646 876 9923 --- Enter meeting ID: 719 182 4655 .

Or iPhone one-tap (US Toll): +16699006833,*,,7191824655#,# or
+16468769923,*,,7191824655#,# International phone numbers available here:
<https://asu.zoom.us/u/abvye370rP>.

WARNING: Since many people will be using Zoom in the next few weeks, expect delays and slow speeds. To optimize speed and minimize the chance of malfunctions, ALWAYS turn off your camera in Zoom, and always MUTE your sound to avoid interference, unless you are invited to ask a question (then unmute yourself while asking the question, and mute yourself again right afterwards). If internet or Zoom speeds are excessive slow for where you are Zooming in from, please dial in via one of the above two phone numbers (1-669 ... or 1-646 ...). For this to work, you MUST pull over all of my PDF Notes files for all of Ryden's chapters as posted under Lab Scripts and <http://windhorst322.asu.edu/notes/>. I WILL teach such that even if you never have video but just voice via your phone, but you do have my posted lecture notes, that you will be able to follow the class. (We are NASA, we always have a backup solution!).

How to hand-in your homework (H/W) sets and term project (T/P): Continue to do H/W on (hand)written single sided pages with your name + ASU-ID number and submission date/time written on top. Same for the upcoming T/P, but please use a word processor for this, which should produce a PDF file for your TP. Then scan each HW into a single PDF file with any ASU library printer that can Email the PDF to you, or make a single PDF from your H/W pages that you scan with the following apps on your PDA: https://play.google.com/store/apps/details?id=com.intsig.camscanner&hl=en_US or <https://apps.apple.com/us/app/camscanner-pdf-scanner/id388627783>

Then Email all your HW PDF files to: ast322homework@gmail.com by the posted deadlines (see file ast322s20_suggestedHWquestions.txt on Lab Scripts page). By Apr 28 (see Schedule page), Email your TP PDF to ast322homework@gmail.com. For both HW and TP PDFs, use exclusively unique file names that incorporates your name + submission date and time (see Links page), e.g.:

ast322_Firstname_Lastname_HW5_1-4_17mar20_1230pm.pdf or
ast322_Mary_Doe_TP_27apr20_430pm.pdf. Never include empty spaces in any file name, but use _ (underscores) instead. Please do NOT Email your HW or TP PDF files to the TAs or Instructor Email addresses. File formats other than PDF will not be accepted. If you cannot produce a PDF file, your TA will accept the usual paper copy in their mailbox. Any good Doc file can be simply converted to PDF.

Thank you very much for your understanding and patience during this difficult time. Together, we WILL make this all work, and we will make you succeed!

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