

**Syllabus: ASTR 520 Spring 2019**  
**Advanced Extra Galactic Astronomy Seminar**  
**M/W 3:00-4:00 Rm 202**

Instructor: Prof. Gurtina Besla [gbesla@email.arizona.edu](mailto:gbesla@email.arizona.edu) N312  
Lecture Notes: [https://github.com/gurtina/ASTR520\\_2019](https://github.com/gurtina/ASTR520_2019)

**Office Hours:** by appointment

**Course Goals:**

- Understand the capabilities of HST and its role in the advancement of Extra Galactic Astronomy.
- Learn how to write an HST-level observational or theoretical proposal.

**Evaluation:**

- 10% Assignment 2: Mock Abstract **DUE Jan 22**
- 10% Assignment 3: Mock Section 1 **DUE Feb 10**
- 20% Assignment 4: 25 minute presentation **Feb-Mar**
- 10% Assignment 5: Proposal Abstract and Outline **DUE Mar 29**
- 10% Assignment 6: Proposal Draft **DUE Apr 9.**
- 30% Assignment 7: 3 page scientific justification for an HST proposal **DUE Apr. 22**
- 10% In-Class Participation

**Schedule:**

January: **NOTE no class Jan 21<sup>st</sup> (MLK Day)**  
HST Overview, Instruments, HST Proposal Types, Proposal Structure  
Proposal Writing Overview

February: Stellar Populations + Presentations  
Galaxies (ISM) + Presentations

March: Galaxies (Structure/Evolution) and IGM + Presentations  
Massive Black Holes & their Hosts + Presentations

April: Scientific Writing  
Research Ethics  
How the Panel Review works

April 29 & May 1: Mock Panel

**Classroom Behavior**

**Academic Integrity:** All students in this course are expected to abide by the University of Arizona's Code of Academic Integrity <http://dos.web.arizona.edu/uapolicies/>

**Cheating is not tolerated in any form.** If a student is caught cheating on any assignment or presentation the penalty will be failure in the course. In all cases a letter will be sent to the Dean of Students describing the incident. If you are aware that someone else is cheating, it is your obligation to inform the instructor.

We allow, even encourage, collaboration on most assignments. However, **you must always write the**

**final version of an assignment yourself**, and use your own words to describe what you have concluded. If we receive verbatim answers from more than one person we will divide the credit received among all those with identical answers.

It is fine to make use of reference books or websites. But if you do so, make sure to put and text taken verbatim in quotes, otherwise make sure to rewrite things in your own words. In all cases you must list the source of your information. **Plagiarism is strictly prohibited.** If you are uncertain as to what constitutes plagiarism see:

<http://deanofstudents.arizona.edu/codeofacademicintegrity>

**Cell Phones:** The use of cell phones is not allowed in the class

### **Assistance:**

If you anticipate barriers related to the format or requirements of this course, please meet with me so that we can discuss ways to ensure your full participation in the course. If you determine that disability-related accommodations are necessary, please register with **Disability Resources** (621-3268; [drc.arizona.edu](http://drc.arizona.edu)) and notify me of your eligibility for reasonable accommodations. We can then plan how best to coordinate your accommodations.

The University of Arizona provides a wide variety of resources to help you feel more at home in the UA environment. Examples of student resource/cultural centers include:

**African-American Student Affairs Center.** <https://aasa.arizona.edu/>

**Asian & Pacific American Student Affairs Center** <https://apasa.arizona.edu/>

**Guerrero Student Center** <https://chsa.arizona.edu/>

**Immigrant Student Resource Center** <https://eao.arizona.edu/isrc>

**LGBTQ+ Student Affairs Center** <https://lgbtq.arizona.edu/>

**Native American Student Affairs Center** <https://nasa.arizona.edu/>

**Transfer Student Center** <https://transfer.arizona.edu/>

**Veterans Education and Transition Services Center** <https://vets.arizona.edu/>

**Women & Gender Resource Center** <https://wrc.arizona.edu/>

We encourage you to take advantage of the community, support, and learning opportunities afforded by these centers, and to encourage your friends and colleagues to do the same.