

# Course Outline for ASTR 255 Winter 2022-2023

## Instructor

- Ruobing Dong / rbdong@uvic.ca
- Office: Elliott 205
- Office hours: by appointment


## TA


- TBD
- Office: TBD
- Office hours: TBD

## Textbook

*Fundamentals of Radio Interferometry for Aperture Synthesis*


[https://github.com/ratt-ru/fundamentals\\_of\\_interferometry](https://github.com/ratt-ru/fundamentals_of_interferometry)

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 o-smirnov Fixed download link. 21d7754 on Aug 23, 2022 1,039 commits

0_Introduction	fix up to chapter 2	3 years ago
1_Radio_Science	minor typo correction	2 years ago
2_Mathematical_Groundwork	fix up to chapter 2	3 years ago
3_Positional_Astronomy	removed auto referencing code	4 years ago
4_Visibility_Space	add all deps	3 years ago
5_Imaging	add all deps	3 years ago
6_Deconvolution	reverted back to pervious version	5 years ago
7_Observing_Systems	minor updates	5 years ago
8_Calibration	dont isntall every time	3 years ago
9_Practical	Imaging Practical	6 years ago

In this course, we will cover the basics in radio interferometric observations

0\_Introduction

1\_Radio\_Science

2\_Mathematical\_Groundwork

3\_Positional\_Astronomy

4\_Visibility\_Space

5\_Imaging

6\_Deconvolution

7\_Observing\_Systems

8\_Calibration

9\_Practical

Evaluations

- Homework: 50%
- Final presentation: 50% (oral presentation)
- Grading will be done according to the university policy