

## Cosmology

**Prof. Scott Burles**

Lectures: Tuesday & Thursday, 11-12:30, Room 12-142

Textbook: *Modern Cosmology*, Scott Dodelson

Office hours: Wednesday 11am, or by appt.

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Teaching Assistant: Yi Mao

Assignments:

Problems Sets (5 or 6): 30%

Projects (2) : 40%

Final Presentation : 30%

Syllabus:

Weeks 1 & 2: Overview, History and General Relativity review

Weeks 3 & 4: Cosmological models, distances and thermodynamics

Weeks 5 - 7: Boltzmann Equation and Big Bang Nucleosynthesis

Week 8: Spring Break

Weeks 9 & 10: Inhomogeneous Cosmology

Weeks 11-14: Modern Observations

Weeks 15-16: Presentations