

Science Honors Program: Modern Cosmology

Instructors

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Syllabus

- Introductory tools (units, vectors, calculus, Newton's laws)
- The theory of Special Relativity
- And introduction to General Relativity and Gravity
- The Friedmann model of the Universe
- The universe's thermal history
- Gravitational collapse and large scale structure of the universe
- The Cosmic Microwave Background
- Dark Matter and Dark Energy
- Black holes
- Inflation

Course notes

<http://apetri.me>, then click on **SHP Modern Cosmology Notes**