



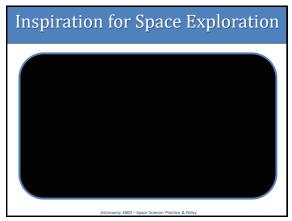
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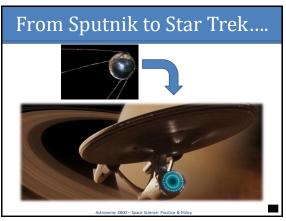


ASTR 4800 - Space Science: Practice & Policy
 Today's Topic: Course Overview.
 Introductions.
 Sign-up sheet for in-class Presentations & Space in the News.

| Forth | Moon | Mars | International Property |

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## Course Overview

• From Walter Isaacson's Einstein: "A popular feel for scientific endeavors should, if possible, be restored given the needs of the 21st century... An appreciation for the methods of science is a useful asset for a responsible citizenry... An appreciation for the glories of science is a joyful trait for a good society. It helps us remain in touch with that childlike capacity for wonder."



## Course Overview (continued)

- Syllabus on class webpage at: http://lunar.colorado.edu/~jaburns/astr4800. Bookmark this page!! Updates are added after each class (including these notes).
- No laptops or cell phones during class, unless exempted.
- · Homework for Wednesday:

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- Chapter 1 in Beyond Sputnik.
- Space in the News article on: Increased solar activity creates new challenges for smallsats. You received an E-mail with a link to an article to review before class. https://spacenews.com/increased-solar-activity-creates-newchallenges-for-smallsats/

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## Topics for Astronomy 4800

- · Why do we explore space?
- The history of the U.S. and Russian space programs Sputnik to the
- Why does the U.S. invest in research? Classic & new policy papers such as the Science: The Endless Frontier, the Artemis Accords.
- Next steps in exploration: the Moon, Mars, Orion/SLS, Artemis Science Strategy.
- · NASA's budget and Congressional authorization/appropriation.
- · Science at NASA:
  - Decadal Survey in Heliophysics; space radiation.
  - Decadal Survey in Planetary Science; Perseverance, Juno, New Horizons, Dragonfly
  - Astrophysics Decadal Survey; JWST, Roman, TESS; lunar radio telescopes.
- Interstellar Travel.
- Perspectives from Industry, NASA HQ, and NASA Centers.

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