

## **BYA Class 1**

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- Introduction
  - Welcome
  - Adding Course
  - Beauty of Sky
    - Light Pollution
- Overview of Sky
  - What are you seeing when you look up?
    - Variety of phenomena: sun, moon, stars, planets, meteor showers, eclipses, comets, aurora, ---
    - Faint/Bright = Near/Far?; Star Colors (cool/hot)
  - Where do you look to find things?
    - Constellations, moon, planets
    - Motion of objects
    - Phases of Moon
    - 24 hour cycle; yearly cycle
  - Astronomy vs Astrology - "Who can explain the difference?"
  - Syllabus, BYA Web Site; Grading
  - Useful books and magazines: (Nightwatch, Sky & Telescope Magazine, Astronomy Magazine)
- Project resources and ideas
  - cameras, telescopes, tripods, internet, binocular mounts
  - Astrophotography
    - Constellations: with Cameras (film, digital)
    - Moon: with Telescopes (digital, film)
  - Observing
  - Internet
  - Planetarium Programs
  - Light Pollution
  - Special
- Big Picture
  - Big Bang; Age of Universe ( $\approx 14$  billion years old)
  - Large Scale Structure (as far as we can see)
    - Sheets & Bubbles
    - Galaxy Clusters, Local Group
    - Milky Way Galaxy
- Introductions and Interests (of Students)