

## **ASTRONOMY**

### **SAMPLE SCHEDULE**

#### **DAY 1**

- o Astronomical Basics - Sky motions, telescope construction and use, electronic imaging, history of astronomy and foundation of astrophysics

#### **DAY 2**

- o Lunar and Planetary Science
- o Nightly Observations - Lunar imaging and crater mapping

#### **DAY 3**

- o Stellar Evolution & CCD Imaging
- o Nightly Observations - Stars and constellations, Variable Star Photometry - measurements of fluctuations in brightness of stars undergoing violent processes

#### **DAY 4**

- o Spectroscopy of the Cosmos
- o Nightly Observations: Determining distances and sizes of stars and their chemical composition.

#### **DAY 5**

- o Cosmological Evolution
- o Nightly Observations - Planetary objects, and galactic structures, astronomical imaging of nebulae, clusters and galaxies.