## Course Outline

## ASTA01H3 Introduction to Astronomy and Astrophysics I: The Sun and Planets

## University of Toronto at Scarborough Fall 2017

Instructor: Dr. Parandis Tajbakhsh Email Address: parandis.tajbakhsh@utoronto.ca

Lectures:

Tuesdays and Thursdays, 10am - 11am

Location: Lecture Room SY 110

Office Hours: Thursdays from 11:00 am - 12:00 pm, by Appointment

Office Location: SW506G

Course Description:

This course is an introduction to the field of astronomy with a focus on the solar system. We will

• *Preliminaries*: Scientific Notation, Units of Measurements, Distances in Astronomy, Copernican Revolution, The Celestial Sphere

• *The Solar System:* A General Overview, The Origin of the Solar System, Terrestrial Planets and Gas Giants, Kepler Laws of Planetary Motion

- *The Sun:* The Atmosphere of the Sun, The Sun s Chemical Composition, Origin of the Energy of the Sun, Solar Activity
- Terrestrial Worlds: Mercury, Venus, Earth and Mars
- The Jovian Planets: Jupiter, Saturn, Uranus and Neptune and their Moons
- Outer-most Areas of the Solar System: Dwarf Planets, The Kuiper Belt
- Other Stellar Systems: A