Astr250: Introduction to Astrophysics

Fall 2018

Instructor: Scott Chapman, scott.chapman @ dal.ca
Lectures: TWF 12:30 - 1:20 pm
Room: Elliot 160
Office Hours: Tuesday 10:30 - 12:00 pm, or by appt.
Labs: Bob Wright A107, M/T/F sessions 6:30 - 9:20 pm

Outline

topic 1 - Course Introduction
topic 2 - Basic properties of stars
topic 3 - Special Relativity
topic 4 - General Relativity
topic 5 - Binary stars and stellar masses
topic 6 - Powering the stars
topic 7 - Post main sequence evolution of stars
topic 8 - Neutron stars and pulsars; X-ray binaries
topic 9 - Physics of Black Holes
topic 10 - Our Galaxy
topic 11 - Our Local Group
topic 12 - Star Formation
topic 13 - Discovery of the extragalactic Universe
topic 14 - Distant Galaxies
topic 15 - Galaxy Clusters and Dark Matter
topic 16 - Supermassive black holes
topic 17 - Expansion of the Universe and the Cosmological Principles
topic 18 - Cosmological models
topic 19 - The hot big bang model
topic 20 - Our Universe
topic 21 - The formation of structure

Grading Scheme

- Midterms and quizzes (Friday 20 Oct 2016): 20%
- Labs: 20%
- Assignments: 20%
- Final Exam: 40%