GALAXIES

COURSE INFORMATION

Time and Location:
Tuesday & Thursday 0930-1100, HENN 304

Instructor:
Paul Hickson
Department of Physics and Astronomy
Room 305, telephone: 822-6706
Email: hickson@physics.ubc.ca
Office hours: Tuesday & Thursday 1100-1200

Evaluation:
term paper 40%
presentation 20%
homework 40%

Website:
www.phas.ubc.ca/~hickson/astr505

Suggested references:
COURSE OUTLINE

Introduction and Review
   Overview
   Surveys and catalogues
   Astronomical background
   Types and sources of radiation

Structure of Normal Galaxies
   Morphology and classification
   Photometric properties
   Kinematics
   Stellar populations

Stellar and Galactic Dynamics
   Theoretical foundations
   Spheroidal systems
   Disks

The Interstellar Medium
   Structure and composition
   Star formation

Active Galaxies
   Morphology and classification
   Radio galaxies
   Active galactic nuclei
   Starburst and infrared-luminous galaxies

Clusters and Groups
   Identification and definition
   Physical properties
   Dynamical evolution

Galaxy Formation
   Hot Big Bang cosmology
   Fluctuation power spectrum
   First objects
   Reionization
   Star formation history