

PHY4936/AST5245

Radiative Processes in Astrophysics

(for graduate and advanced undergraduates)

(New course, Spring 2012)

When : Monday & Friday at 1:20 - 2:25pm

Where: HCB 314

Instructor: Peter Hoeflich (office:614 Keen, tel.:644-5567)

Web: <http://astro.physics.fsu.edu/~pah>

E-mail: pah@astro.physics.fsu.edu

Photons are the carrier of information in astronomy and, in many cases, dominate the structure and evolution of celestial objects. Understanding radiative processes is important for any future observer and theoretician alike. Radiative transport, radiation hydrodynamics and the coupling of photons and matter are the building blocks. In this course we will learn the fundamentals, appropriate methods and approximations to solve the radiation transport problem with an emphasis to gain a better understanding of stars, stellar atmospheres, exploding stars, nebula to the re-ionization phase which ends the 'Dark Ages'.