From the detection of gravitational waves to superfast data transmission using optical fibers to the latest flat panel TV displays, Photonics has made breakthrough contributions to science and engineering. Give your career a jump start and take this class.

We will discuss:

- light as an electromagnetic wave,
- the laws of reflection, refraction and diffraction,
- basic optical components such as lenses, mirrors, prisms and fibers,
- the human eye,
- optical imaging and data transmission,
- interferometers, telescopes and microscopes,
- light sources such as lasers and light emitting diodes,
- nano-photonics and metamaterials.

Instructor: W. Rudolph, MW 10:00 – 11:15, PAIS 1140
(wrudolph@unm.edu)