1. Go to the following web page:
   http://www.astro.gsu.edu/~crenshaw/astr8400_images.html
   Use the images there to classify each of the 30 galaxies according to the following schemes: a) Hubble, b) de Vaucouleurs, c) Hubble T stage. Use the "Carnegie Atlas of Galaxies" as a guide. Point out any spirals that are "grand design".

2. Look up NGC 1300 on the NED web site. Using the information you find there, plus information from class, list or determine its following properties. For each, list how the property was determined and the reference, when appropriate.
   a) De Vaucouleurs classification and meaning
   b) Right Ascension and Declination (J2000)
   c) Redshift
   d) Distance
   e) NED Major and minor axes of disk (in arcmin and kpc)
   f) Inclination of disk
   g) Position angle of major axis in the sky
   h) B magnitude
   i) Galactic reddening (E_B-V)
   j) RNGC description of morphology
   k) Diameter of major axis at \( \mu_B = 25 \) mag arcsec^{-2} (in arcmins and kpc)

3. a) What is the absolute B magnitude (M_B) of NGC 1300 using the above information, including extinction from our Galaxy and the K-correction?
   b) What would the apparent B magnitude of NGC 1300 be if it were at a redshift of z = 0.1, including extinction from our Galaxy and the K-correction?