Equipment list:

This experiment we will measure the wavelengths emitted by hydrogen and he- lium with our Ocean Optics spectrometer. We will use the hydrogen spectrum to calibrate the spectrometer. Then, we will be able to obtain accurate measurements of the helium spectrum. After collecting the Helium spectrum data, we will compare the helium wavelengths to those of hydrogen to help us identify the transitions

Equipment:

- HR 4000 Ocean optics spectrometer (or another spectrometry with about 1nm resolution or lower) including a computer to operate the spectrometer.
- He discharge lamp
- H discharge lamp