**CHEM131 TBL**

**Unit 2 – Electronic Structure of Atoms – Part I**

**Must Know List**

1. Description of electromagnetic radiation.

2. Definitions of wavelength and frequency, including symbols.

3. Relationship between wavelength and frequency, including the equation by which they are related.

4. Calculation of wavelength (See Example 4-4).

5. Calculations of energy (See Example 4-5)3

6. Description of the photoelectric effect.

7. Albert Einstein’s explanation for the photoelectric effect.

8. Description of atomic spectra and the Bohr atom.

9. Description of the quantum mechanical picture of the atom.

10. Description of the four quantum numbers.