**CHEM131 TBL**

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

**Must Know List**

1. Define quantum numbers

- Define each quantum number and describe the range of values it can take.

2. Explain atomic orbitals

- Use atomic orbitals to describe the distribution of electrons in atoms.

- Describe shapes of atomic orbitals.

- Discuss sizes of atomic orbitals.

3. Determine electronic configuration of atoms

- Use the Aufbau Principle to write electronic configurations of atoms and ions.

4. Differentiate between paramagnetic and diamagnetic substances

5. Discuss the arrangement of the atoms in the periodic table based of electronic configuration of atoms

Study Examples 4-8, 4-9, 4-10 & 4-11