**CHEM131 TBL**

**Unit 3 – Nuclear Chemistry – Part II**

**Must Know List**

1. Describe the common types of radiation emitted when nuclei undergo radioactive decay.

2. Write and balance equations that describe nuclear reactions (Study Example 26-3).

3. Predict the different kinds of nuclear reactions and describe how these reactions depend on positions of the nuclei relative to the band of stability (Neutron-Rich Nuclei, Neutron-Poor Nuclei & Nuclei with Atomic Number Greater than 83).

4. Describe the methods for detecting radiation.

5. Understand half-lives of radioactive elements.

6. Carry out calculations associated with radioactive decay (Study Example 26-4).

7. Interpret decay series.