

**Chemistry 4055 (Spring 2013)**  
**Final Exam Study Guide**

**Review Exams 1, 2, 3, and 4**

**Chapters 14, 16, and 19**

- I will focus mainly on glycolysis, the citric acid cycle, and aerobic respiration but do understand what gluconeogenesis is.
- You do not need to know the mechanisms of each step of the pathways listed above but key things to know are which steps lead to ATP consumption, ATP production directly and indirectly, electron carrier release, CO<sub>2</sub> production, and oxygen reduction. You also need to know which glycolysis steps are irreversible and why.
- Study HW 5 and understand the concepts that were focused on in the questions. Also know how to do all of the calculations from this HW set.