

Reading Guide

CEEG 340–Introduction to Environmental Engineering

Instructor: Deborah Sills

Reading assigned for Monday 9/9: Textbook pp.86–89, pp.101-107

After completing the reading you should be able to:

1. Describe five important reactions that govern the carbonate system (Fig.3.6).
2. Define alkalinity.
3. Define Buffering capacity.
4. Describe how increased concentrations of atmospheric CO_2 change the chemistry of the world's oceans.
5. Describe the rate law in one sentence.
6. Write a rate law and an integrated form of a rate law that describes
 - (a) a zero order reaction,
 - (b) a first order reaction,
 - (c) a second order reaction.
7. Given a first order rate constant for a specific reaction, calculate the half life of the reactant.