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5.111 Principles of Chemical Science
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5.111 INSTRUCTIONS AND LOGISTICS FOR EXAM III

Exam III covers Lectures 17-26 (Entropy and Free Energy, Chemical Equilibrium, Acid-Base Equilibrium, Oxidation-Reduction) and associated reading and problem sets #6, #7, and #8. The exam is closed book and closed notes. Bring your calculator. Please note that bringing calculators with any relevant physical or chemical information is cheating. The one and only exception is that if your calculator includes values for extremely common fundamental physical constants like c and h and m_e , it is acceptable to use them. No constants that are commonly defined in terms of such fundamental constants (for example, the Rydberg constant or the Bohr radius) are acceptable. It is your responsibility to make sure that no unacceptable information is available on your calculator. A list of physical constants, a periodic table without electron configurations, and most equations will be supplied. Full credit for a problem will be given only if each step of its solution is clearly shown, including the values of the constants. Quantitative solutions to problems must have the correct number of significant figures.