

CHEMISTRY 101 FALL 2008

SKILLS SUMMARY

Chapter	Skills	Problems
6	Understand the terminology of thermodynamics	1,2,3,7,8
	Understand energy transformation	5,6,9
	Work with First Law problems	11,12,14,18,16
	Calculate Enthalpy changes (ΔH)	21,24,26, 28
	Calorimetry (heat capacity, specific heat)	29,31,34,38
	Standard Enthalpy of formation	48,56
	Standard Enthalpy of reaction	54, 58,60
	Hess's Law problems	62,64
7	Work with EM by calculating energy, frequency and wavelength	16,18,20
	Describe the photoelectric effect	13, 14
	Calculate the energy and frequency of electronic transitions	30,34
	Work with matter waves	40,42
	Work with Quantum numbers	54, 79,94
	Write the electron configurations	71,72,80,82,84
	Assign electrons to orbitals	64, 62