NAME/TEAM:	

Computational Chemistry Prelab Last modified: June 17, 2014

AirUCI Manual: Computational Chemistry Lab (Spartan)
Environmental Chemistry Text: Pages: 175–179, 184–187 and 193–196 on Molecular Vibrations

Prelab Questions:		
1)	What is the overall goal of this lab?	
2)	What computer program will be used for the computations?	
3)	What region of the electromagnetic spectrum can induce molecular vibrations:	
4)	Convert the wavenumber (similar to a "frequency") $1000\ \text{cm}^{-1}$ to a wavelength in μm .	
5)	What is a dipole?	
6)	What is the model chemistry (i.e., theoretical model and basis set) that will be used for the calculations in this lab:	
7)	What do the terms HOMO and LUMO stand for?	