Chemistry 3300B

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Expected Learning Outcomes

- Recognize the utility of computer tools in chemistry resea
- Understand the basic theoretical principles of molecstlarcture calculations
- Visualize, build, and manage molecular structures on apcder
- Understand the origin and meaning of molecular orbitals
- Know how to use the aussian program to predict the most stable structures of molecutes ulate reaction enthalpies and Gibbs energies, simulate vibraltispectra, correlate electronic structure with chemical properties
- Be able to perform basic operations of calculus and linkgerbara usingMaple
- Be able to perform least-squares tting and regressionly area of data using excel
- Be aware of the capabilities and limitations of computations computations are computational techniques

Course materials: There is no required text. All course materials (lecturesotnanuals, etc.) will be distributed via the course website.

Recommended textbook: E. G. Lewars, Computational Chemistry: Introduction to the Theory and Applications of Molecular and Quantum Mechanils ded., Springer, Dordrecht, 2011, ISBN 978-90-481-3862-3. Online access is available through the Westierary Catalogue.

Evaluation: The course grade will be determined as a weighted average of towing components:

Tutorials30% (5% each)Quizzes16% (4% each)Midterm test14% (in class on Wednesday, February 28)Final exam40%

4287(ei)1781314)av course grade-243.363(o)-1.87468(5e)2.35254(n)o18.1873(u)t3.3525406egre-3.04891(a)2.3505

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