Chemistry 3300B

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Expected Learning Outcomes

- Recognize the utility of computer tools in chemistry resea
- Understand the basic theoretical principles of moleculariture calculations
- Visualize, build, and manage molecular structures on apoder
- 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 using Maple
- Be able to perform least-squares tting and regressionlysissof data using excel
- Be aware of the capabilities and limitations of computation chemistry techniques

Course materials: There is no required text. All course materials (lecturæsomanuals, 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 Mechaniand ed., Springer, Dordrecht, 2011, ISBN 978-90-481-3862-3. Online access is available through the Westerary Catalogue.

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

Tutorials 30% (5% each) Quizzes 16% (4% each)

Midterm test 14% (in class on Wednesday, February 28)

Final exam 40%

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