CHM222
Introduction to Physical Chemistry

Location: Lash Miller, Room 161
Dates and Time: Mondays, Wednesdays: 4:00 - 5:00 pm

Instructor

• Prof. Jeremy Schofield
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  – Office hours: Wednesdays, 3:00 pm - 4:00 pm

Grading

1. 3 Term tests 20%
   • Monday, October 2 2017
   • Monday, October 30, 2017
   • Monday, November 20, 2017

2. Final exam 40%
Thermodynamics

1. Definitions
2. First law of thermodynamics
   • Joule and Joule-Thompson experiments
3. Second law of thermodynamics
   • Carnot cycle
4. Calculating entropy changes
5. Spontaneity
6. Chemical potential
7. Standard thermodynamic state functions
8. Equilibrium in chemical reactions
9. One-component phase equilibria
10. Partial molar quantities and ideal solutions
11. Real gases - critical phenomena
12. Colligative properties