PHYS 3542 (29772) (3crs): Advanced Statistical Physics
Spring Term, 2016 (2164)
(Tues/Thurs 1:00 to 2:15pm) Rm. 106 Allen Hall
Dr. Roger Mong
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This course will cover the statistics of interacting particles, phases and phase transitions.

Topics include:
- Landau's paradigm of phases and order parameter
- Ginzburg-Landau (mean-field) description of broken symmetries
- Critical phenomena
- Renomalization group in condensed matter
- Boltzmann equation
- Fluctuation/dissipation theorem