Physics 121  Final Exam

Thursday, August 9, 9:10-10:20

Please bring:  Scantron form: **882-E** + Pencil, Calculator and 3 formula sheets (1 new + 2 from midterms). Up to one third of the exam will be cumulative (see Midterm Review sheets)

Closed book. Multiple choice and short answer. Topics Covered Include:

**Chapter 26:** Reflection of Light. Flat Mirrors, Spherical Mirrors, Ray Tracing (mirrors & lenses), Mirror Eqn, Magnification, Index of Refraction, Snell’s Law, Thin Lens Formula.

**Chapter 28:** Cause of Constructive & Destructive interference. Double Slit, Interference & reflection:

**Chapter 29:** Postulates of Special Relativity, time dilation. Length contraction, E=mc², Relativistic energy

**Chapter 30:** Planck’s Quantum Hypothesis, Photoelectric effect, De Broglie hypothesis, Wave Particle Duality. Heisenberg Uncertainty Principle, Quantum Tunneling.


Not on test:  Sections 27-5, 28-5, 28-6, 29-5, 30-4, 32-3, Chapter 31, Chapter 27