

## **PHYS 301 Electricity and Magnetism**

Here are a few things that you should know (among other things) and have committed to memory for our final exam! These cannot be on any of your 3"x5" notes cards.

✖ Know all the items from the “Things to Know for Exam I” sheet

✖  $\Phi_E \equiv \int \vec{E} \cdot d\vec{A}; \quad \Phi_B \equiv \int \vec{B} \cdot d\vec{A}$

✖ Laplace’s equation and Poisson’s equation

✖ Boundary conditions for electrostatics & magnetostatics.

✖ Law of Biot-Savart

✖ Coulomb’s Law

✖ Maxwell’s Equations