For the Final

- Calculating electric fields: Coulomb and Gauss
- Calculating magnetic fields: Biot-Savart and Ampere
- Practice flux (area) integrals vs line (contour) integrals. Be aware of what you integrate.
- Electric and magnetic forces: simple mechanics could come in!
- Work in electric fields + electric potential: again line integrals are important.
- Faraday’s Law + self inductance
- Practice circuits, capacitors
- Time-dependent circuits, simple differential equations.