CHM 341 Prerequisites

<u>Mathematics</u>
- Basic differential calculus
   Sum rule, product rule, chain rule
   Derivative as a slope
   Conditions for maximum, minimum and inflection points.

- Basic integral calculus
   Integrals of simple functions
   Integral as an area

<u>Chemistry and Physics</u>
- Ideal gas law and applications
- Law of partial pressures
- States of matter: solid, liquid and gas; phase transitions.
- Heats of chemical reactions
- Solutions: solubility, boiling point, etc.
- Elementary chemical kinetics
- Newton's laws and the concept of force.
- Pressure
- Energy and work
- Temperature, heat and their measurement
- Ohm's law and application