

## 1.1.2 Required Background Knowledge

### Mathematics

- Not much. Familiarity with with basic undergraduate math will suffice.

### General Physics and Chemistry

- Familiarity with thermodynamics (including statistical thermodynamics), basic solid state physics, and general chemistry is sufficient.

### Materials Science

- You should know about basic crystallography and thermodynamics. The idea is that you emerge from this course *really understanding* structural aspects of defects in some detail. Since experience teaches that abstract subjects are only understood after the second hearing, you should have heard a little bit about point defects, dislocations, stacking faults, etc. before.