

Physical Geology Study Guide for Exam II

Geologic Time (Chapter 8)

- 1) Extinction and its causes
- 2) Major Life Forms and Geologic Events of the Time Scale
- 3) Absolute Dating
- 4) Relative Dating

Chemistry and Minerals (Chapter 9)

- 1) Chemical Bonds: Ionic, Covalent and Polar Covalent
- 2) Isotopes and their Importance to Geology
- 3) Criteria for Something to be Called a Mineral
- 4) Silicates
- 5) Nonsilicates
- 6) The Physical Properties of Minerals

Igneous Rocks (Chapters 10 and 11)

- 1) Felsic vs. Mafic Magmas
- 2) Bowen's Reaction Series
- 3) Volcanism: Felsic (Composite Cones) and Mafic (Shield)
- 4) Igneous Intrusions

Sedimentary Rocks (Chapter 14)

- 1) Graded Bedding
- 2) Clastic vs. Nonclastic sedimentary rocks
- 3) Transgression and Regression
- 4) Sedimentary Structures

Metamorphism (Chapter 15)

- 1) Regional vs. Contact Metamorphism (Where does it occur?)
- 2) Factors Influencing Metamorphism
- 3) Metamorphic Facies

I will ask you eight essay questions from this list of topics. You will be only required to answer five of those questions. There will also be a bonus question. The essay section of the test is worth 50 points. The multiple choice part of the exam is also worth 50 points.