

206-1-3131 **Advanced Sedimentology** 3.0 credits

Chaim Benjamini

Prerequisite: 206-12181

Course Requirements:

12-13 2- hour lectures, no attendance requirement. Latecomers may not be admitted.

12-13 2hr - demonstration exercises, hand-in exercises

Source material will be put on High Learn server from time to time.

Grading

Final exam: 90% (includes demonstration material); practical reports up to 10%

Syllabus

1. Red shales, black shales, glauconite
  2. Cathodoluminescence
  3. Late-stage diagenesis
  4. Dolomite and dolomitization processes
  5. Organic matter in sediments
  6. Aeolian fines and loess deposits
  7. Clays
  8. Paleosols, Calcrete and sequence boundaries
  9. The lacustrine environment: Physical and geochemical signatures for the depositional and early diagenetic environment
  10. Evaporites
  11. Siliceous sediments; phosphorites
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