ME551/Geos551 Geology, Mining and Processing of the Industrial Minerals  
Spring 2014

The class will meet one day on Wednesday, 9-12 AM, B127 for ~120 minutes with the remaining time spent on field trips or in occasional extra discussion sessions with visiting industrial mineral notables.

WEEK OF:

January
13—Introduction: IM definition and overview
20—Basic concepts: Geology, mining, and processing
27— More IM basic concepts; IM industry flow sheet, Transportation

February
3—Commodities: introduction
10—Commodities
17—Commodities
24—no class Annual SME meeting in Denver, no class

March
3—Sustainable development
10—Commodities
17—SPRING BREAK Midterm exam (Take Home)
24—Marketing, QA/QC, IM Trends
31—Commodities

April
7—Commodities
11—NMGS spring meeting
14—no class, take home assignment
21—Commodities
28—Commodities, Final exam given out (Take Home)

May
5—Present research results in class (15 mins)
8—Final Exam due by noon on May 8th

Required Textbook
Kogel, J.E, Trivedi, N.C., Barker, J.M., and Krukowski, S.T., 2006, ed., Industrial Minerals and Rocks, 7th edition: Society for Mining, Metallurgy, and Exploration, Littleton, Colorado—available online from SME at student price $193 if you become a member online (use McLemore member #2142500 as recommendation) to get this price (save more $ than membership costs plus you should all be members of SME anyway) NOTE: I also have this on CD for anyone not wanting to buy it.

Class Details
Exams: Midterm and Final—both are take home exams that will emphasize short answer and essay questions.

Term project—you are required to do a research project that will involve some original work. I will give you use of my telephone for long distance calls if necessary. You can work on this as a team. This can be a portion of your thesis.

Field trips—there will be 2 or more field trips and a field report on each trip will be required.

Basis for final grade | Midterm | 25%
|---------------------|---------|-----
|                      | Final (comprehensive) | 30%
|                      | Lab exercise | 5%
|                      | Term project | 25%
|                      | Class Participation, field trips | 15%