Crystallography and Structure of Nanomaterials

Course Description

Description: This graduate course covers crystallographic characteristics and structural properties of nanomaterials. Emphasis is placed on electron and x-ray diffraction signatures of nanoparticle size, shape, and configuration.

Credit Hours: 3 (lecture)

Instructor: S. P. Ahrenkiel
Office: EEP221; Hours: MWF 11-11:50 AM, and by appointment
Phone: x5238
Internet: e-mail: Phil.Ahrenkiel@sdsmt.edu
URL: http://sdmines.sdsmt.edu/sdsmt/directory/personnel/sahrenki

Text:

Supplementary Texts: (Not required)

Equipment: Always bring a calculator (w/trig., log. functions) to class.

Classroom: Electrical Engineering & Physics Building, Room 251A

Time: MWF 10:00 AM-10:50 AM

Exams: There will be two midterm exams covering specified lecture material.

Final: The final exam will include specified material from throughout the semester.

Quizzes: There will be quizzes, both announced and unannounced. Attendance or prior arrangement is required for credit.

Homework: Homework problems will be assigned with specified due dates. Late submissions may be assessed a score reduction. Original work and legibility are required.

Attendance: Attendance is essential and may be recorded. Missed work may only be deferred upon prior arrangement.

Grading: Assignments will have the following weight toward the final grade:
Homework: 35%, Quizzes: 5% Midterm Exams: 30%, Final Exam: 30%
Special Needs: Students with special needs or requiring special accommodations should contact the instructor and the campus ADA coordinator, Jolie McCoy (394-1924) at the earliest opportunity.

Freedom in Learning: Students are responsible for learning the content of any course of study in which they are enrolled. Under Board of Regents and University policy, student academic performance shall be evaluated solely on an academic basis and students should be free to take reasoned exception to the data or views offered in any course of study. Students who believe that an academic evaluation is unrelated to academic standards but is related instead to judgment of their personal opinion or conduct should contact the dean of the college which offers the class to initiate a review of the evaluation.