

**Course Outline**  
**Introduction to SEM and EDS**  
**for the New SEM Operator**  
June 6, 2010

***Sunday Morning Session***

8:15-8:30 Registration (Whitaker Lobby)  
8:30-9:30 SEM Basics  
9:30-10:00 Preparation of Samples  
10:00-10:15 Break  
10:15-11:15 Lab: Basic Operation  
11:15-12:15 Lab: Sample Preparation  
12:15-1:30 Lunch (Whitaker Lobby)

***Sunday Afternoon Session***

1:30-2:30 Imaging and X-ray Analysis in the SEM  
2:30-3:30 Demo Lab: Using EDS Software  
3:30-3:45 Break  
3:45-4:45 Lab: Optimizing the Image  
4:45-5:30 Element Identification and Compositional Analysis

***Sunday Evening Session***

5:30-7:30 Dinner (Whitaker Lobby)

This course ends with Dinner.

After dinner, participants should join the main, ***Scanning Electron Microscopy and X-ray Microanalysis***, course, which starts with an evening session.

See the SEM course program for details.

*Note: All classes and labs will be in Whitaker Lab.*

*Disclaimer: The organizers reserve the right to change the instrumentation or sequence of lecture topics and to cancel lectures or substitute lecturers if necessitated by circumstances beyond their control.  
Updated 9/10/08*