

Materials Characterization Facility Summer 2021 SEM Training Course

These training sessions are required for all graduate students who plan on using the SEMs in the Materials Characterization Facility in their research. This training will cover the scanning electron microscope, secondary electron imaging, back-scattered electron imaging and energy dispersive x-ray spectroscopy. Please note that this is a training course intended for students doing research and **not** a class for credit.

The lectures will be provided in video format; labs will be in person. If you would like to take the lab remotely, please indicate that when you sign up.

--Cost: \$300, must provide oracle number--

Pre-requisites:

- Advisor approval and oracle number (course cost is \$300)
- Complete online "Radiation Safety Training for EM and XPS Users" through Bioraft: <https://cmu.bioraft.com/rafttraining/course/96>
- Lecture videos and preparatory videos for the labs will be provided; attendees are expected to watch these videos in advance of the labs

Dates*:

The training sessions will run June 7th thru June 9th; There are three time slots available: 9AM – 11AM, 11AM – 1PM, and 1PM – 3PM.

Proficiency tests will be scheduled by individual appointment the week of June 14th.

*If you are unavailable during these dates but need SEM training prior to the next training tentatively planned for October, please contact Betsy to see **if** an accommodation can be made.

Location:

Materials Characterization Facility Classroom, Roberts Hall, Rm 124

Sign-up:

Contact Betsy Clark (eac1@andrew.cmu.edu) by **Friday, June 4th** to register for the course. Please cc your advisor on the e-mail!

Instructors:

Betsy Clark, Logan Solotky, and Dan Flaherty

*We intend to offer the SEM training course three times a year. The next training session is tentatively planned for October 2021.

**XRD and AFM trainings are offered on an individual basis. Please contact Betsy (XRD) and Logan (AFM) to set up a training time.