

A TEM Short Course from the AIM Lab, Maryland NanoCenter, University of Maryland

AN INTRODUCTION TO TEM FOR NEW TEM OPERATORS

A Transmission Electron Microscopy (TEM) short course will be offered this summer break (June 2025) through the AIM Lab at the NanoCenter, University of Maryland. This is a hands-on course aimed at introducing the basic concepts, instrumentations and application of TEM to new operators. The lecture portion of the course will focus on fundamental theory in TEM; laboratory exercises are designed to provide instruction on both the operation of TEM and useful techniques for materials characterization using TEM. This course is also recommended as a refresher course to individuals with prior knowledge and operating familiarity with the TEM.

TEM Class: Date: Four days, June 24, 25, 26 and 27, 2025

Lecture: 09:30 am - 12:00 pm. (Theory)

Laboratory: June 24, 25, 26 and 27, 2025

Two hours/group/day (TEM operation, 2 ~ 3 students/group)

Rooms: Lecture Room: TBA

Lab: TEM facility, Room 1237B, Kim Building.

Fee: Lecture and Lab Course: \$435 per person*, \$395 per person for members of research groups with multiple enrollments, or for individuals concurrently enrolled in the TEM and SEM short courses.
Lecture only: \$225 per person.

Limit: Maximum enrollment is 9 (three groups, 2-3 students per group)

To encourage all potential users to register for the short course, a discount will be offered to individuals if they are affiliated with a research group where other members are also enrolled in the course or if s/he is attending both TEM and SEM (see SEM short course announcement).

* This fee applies to UMD users only. Different fees apply for non-UMD participants; please check with the AIM Lab office by calling W-A Chiou at (301)-405-0541 or send an e-mail to wachiou@umd.edu for more information.

To enroll, please fill out the attached application form and submit to W-A Chiou by 5:00 pm, Wednesday (06/18/25) at Room 1234, Kim Building. Students accepted into the class will be informed by e-mail by Saturday (06/21/2025).

Please note that all class participants must be fully vaccinated before attending the class. During the laboratory hours, wearing a properly fitted mask is encouraged.

Enclosure: TEM Short Course Application Form

Application Form for UMD Summer (June 2025) TEM Short Course

Name: _____
Last, First Middle Initial

Department: _____

Telephone No.: _____

E Mail Address: _____

Advisor and/or PI: _____

Payment: Check or UMD Worktag Account No.: _____

Course to be attended: TEM Short Course

Research Topic: _____

Is there any other attendee from your research group? _____, and his/her

Name: _____

Will you also attend SEM and/or FIB short course? _____

Signed: _____ (Student) Date: _____

Signed: _____ (Advisor/PI) Date: _____