

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

## AN INTRODUCTION TO TEM FOR NEW TEM OPERATORS

A Transmission Electron Microscopy (TEM) short course will be offered this coming winter break (January 2020) through the AIMLab 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, January 14, 15, 16 and 17, 2020

**Lecture:** 09:30 - 11:40am. (Theory)

**Laboratory:** January 14, 15, 16 and 17, 2020

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: \$425 per person\*, \$375 per person for members of research groups with multiple enrollments, or for individuals concurrently enrolled in the TEM and SEM short courses.  
Lecture only: \$210 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.

To enroll, please fill out the attached application form and submit to W-A Chiou or S-C. Liou by 5:00 pm, Thursday (01/09/20). Students accepted into the class will be informed by email by Saturday (01/11/20).

Please call W-A Chiou at 5-0541 or send an e-mail to wachiou@umd.edu for more information.

Enclosure: Application Form

## Application Form for Winter (2020) TEM Short Course

Name: \_\_\_\_\_  
Last, First Middle Initial

Department: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

E Mail Address: \_\_\_\_\_

Advisor: \_\_\_\_\_

Payment: Check or FRS 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 short course? \_\_\_\_\_

Signed: \_\_\_\_\_ (Student) Date: \_\_\_\_\_

Signed: \_\_\_\_\_ (Advisor) Date: \_\_\_\_\_