Spring 2012

EMA 6518: Transmission Electron Microscopy

Time: Mon 2:00-4:00pm
Location: MME conference room

Instructors:
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Objective: EMA 6518 is a graduate level, introductory course in theory and practical use of the Transmission Electron Microscope (TEM) as a research tool in Materials Science and Engineering. It will introduce all aspects of modern TEM comprising diffraction, imaging and microanalysis. 8 lab courses will be given by Dr. Yanqing Liu.

Prerequisite: EMA 5507

Reference book:

I: Basics; II: Diffraction; III: Imaging; IV: Spectrometry

Grading:

1 written exam: 30%
Lab: 30%
Home works: 20%
Report or presentation: 20%

Office Hours: Mon 4:00-5:00pm or by appointment
**Final Grades:**
- A = 90 - 100
- B = 80 – 89
- C = 70 – 79
- D = 60 – 69
- F = below 60

**Policy regarding student misconduct:** Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas, and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly to demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook.