

ONLINE UNDERGRADUATE PROGRAM ELECTRONIC MATERIALS FOR COMPUTING AND ENERGY APPLICATIONS



COURSE TOPICS AND SCHEDULE

PHD Student Discussions (5 hours)

Readings about the course topics will be assigned in preparation for the professor's lectures. An Illinois graduate student will lead discussions and answer questions to help students understand the content.

Worksho series in MATSE 10 hours

Current status & research areas in Materials Science and Engineering:

- Electronic Materials
- p-n junctions
- Solar cells
- Transistors
- New materials to sustain the Moore's law

Graduate study application/research skills/career development (5 hours)

- Q&A with PhD student: graduate applications & research skills; writing academic research reports
- Graduate College: how to be a successful graduate student
- Čareer Services: intercultural communication
 & personal branding
- Program recognition & learning outcome showcase, led by University of Illinois & GET staff

THE DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING

The Department of Materials Science and Engineering (MatSE) was built on a tradition of excellence that dates back to the founding of the University of Illinois in 1867.

MatSE at Illinois is one of the largest materials departments in the nation, with ~600 undergraduate and graduate students. The quality of the department is recognized by peer institutions, with both the undergraduate and graduate programs consistently ranked in the top three in the nation.

- · All classes in English
- 20 hours of engagement
- · Certificates awarded upon completion

Students must be entering second year of college or later. Instruction equips students with research methods and preparation to complete projects. Students are expected to participate in live discussions and problem solving during each live class session.



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