

New MS Student Orientation



Schedule

September 9, 2020

10:00 Welcome from Prof. Erik Luitjen, Department Chair

10:05 Overview of the MS program (Prof. Yip-Wah Chung)

10:25 Certificate in ICME (Prof. Rondinelli)

10:35 Q & A

10:45 Peer advising (Huijun Di and Yang Weng)

September 9, 1-3 pm and September 10, 9-11 am

MS student individual advising (BS/MS: Prof. Ken Shull)

MS requirements

- 12 courses, all taken for a grade.
- Typically 3-4 per quarter.
- 8 MSE courses (5 must be 400 level, excl. 499)

BS/MS requirements

- Courses only option – same as above
- Thesis option – thesis + 6 advanced courses (4 MSE of which 3 must be 400 level) all taken for a grade

Special Programs

- Integrated Computational Materials Engineering
- Minor in Engineering Management
- SJTU Dual MS Degree Program

MSE Advanced/Graduate courses, Fall 2020

- 351 Introductory Physics of Materials
- 357 Nanomagnetic Materials for Information Storage
- 381 Energy Materials
- 391 Process Design
- 401 Chemical & Stat. Thermodynamics
- 402 Structure of Cryst. & Non-cryst. Materials
- 444 Organic Nanomaterials
- 445 High Polymer Science
- 451 Advanced Physics of Materials
- 461 Diffraction Methods in Materials Science

Colloquia and Seminars

- MSE Colloquia are on Tuesdays at 4 pm.
- Attendance strongly encouraged.
- There are many other seminar series of interest: IIN, ISEN, MRSEC, plus departmental seminars.

Research

- Research is not a required component of the course-based MS program
- **499 (Independent Study)** can be taken in winter quarter
 - One unit, but can spend more than one quarter
 - You can approach professors directly after mid-October, or I can help you
 - Not counted towards the five 400-level course requirement

Academic Integrity

- Submitted work must be your own.
- Check with instructor regarding permissibility of solving homework problems as a group.
- Acknowledge contributions in group work.
- Cite original sources of written materials, ideas, solutions, etc.

Lab Safety

- In classes with laboratory activities, safety is the top priority; if in doubt, check with lab instructor.
- In research studies, if in doubt, check with your faculty research advisor.
- Any meetings associated with safety are mandatory.

Student Support & Conflict Management

- Do not wait to raise concerns.
- Alice Camacho and Kathleen Stair serve as non-faculty points of contact (confidential).
- The Chair (Luijten) and Associate Chair (Lauhon) can be contacted at any time.

Program Suggestions

- Style of each professor is different, especially in today's online environment.
- If you have questions during lectures (in person or synchronous online), just ask; otherwise, see the professor or TA during office hours
- PhD – need to do well in coursework and research
- Job-seekers – develop skill set through proper choice of courses and attending colloquia/seminars
- Social and extracurricular interactions with classmates

Individual/Small Group Advising

- Advising: this afternoon between 1 and 3 pm, or tomorrow between 9 and 11 am.
- Email me for a 20-minute meeting, first come first served (use this zoom room).
- My role
 - Advice on coursework selection
 - Help navigating through bureaucracy
 - Introduction to 499 project advisors
 - Information about Northwestern, Evanston, and Chicago