MATERIALS ENGINEERING, MENG

for the degree of Master of Engineering in Materials Engineering

This program is not accepting applications for academic year(s) 2022-2027.

Admission

Students with bachelor’s or master’s degrees in the natural sciences or engineering will be considered for admission if they have a grade point average of at least 3.00 (A = 4.00) for the last two years of undergraduate study. The general test of the Graduate Record Examination (GRE) (http://www.ets.org/) is required. Admission is possible for the spring semester, but most admissions are for the fall semester. Full details of admission requirements are on the department’s graduate admissions Web site (http://www.matse.illinois.edu/admissions/graduate.html).

All applicants whose native language is not English must submit a minimum TOEFL (http://www.toefl.org/) score of 104 (iBT), 257 (CBT), or 613 (PBT); or minimum International English Language Testing System (IELTS) (http://www.ielts.org/) academic exam scores of 7.5 overall and 6.0 in all subsections. Applicants may be exempt from the TOEFL if certain criteria (http://grad.illinois.edu/admissions/instructions/04c/) are met. Full admission status (http://grad.illinois.edu/admissions/instructions/04c/) is granted for those taking the TOEFL or IELTS since the scores required for admission to MatSE are above the minimum scores demonstrating an acceptable level of English language proficiency.

For the M.Eng. degree program students must have had a B.S. degree in MatSE or a related field (e.g., B.S. degrees in Metallurgy, Polymers or Ceramics, or with concentrations in Materials Chemistry, Condensed Matter Physics, etc.). Students in the program are not expected to continue in and do not have automatic admission to the Ph.D. program in MatSE. The M.Eng. degree is a professional degree.

Financial Aid

Financial aid is available in the form of research assistantships, teaching assistantships, and partial fellowships for students in the Ph.D. programs. Except for special circumstances, MatSE does not provide financial aid to students in the M.S. and M.Eng. programs. All applicants, regardless of U.S. citizenship, whose native language is not English and who wish to be considered for teaching assistantships must demonstrate spoken English language proficiency (http://grad.illinois.edu/admissions/taengprof.htm) by achieving a minimum score of 50 on the Test of Spoken English (TSE), 24 on the speaking subsection of the TOEFL iBT, or 8 on the speaking subsection of the IELTS. For students who are unable to take the TSE, iBT, or IELTS, a minimum score of 4CP is required on the EPI test (http://cte.illinois.edu/testing/oral_eng/epi_overview.html), offered on campus. All new teaching assistants are required to participate in the Graduate Academy for College Teaching (http://cte.illinois.edu/programs/ta_train.html) conducted prior to the start of the semester.

Information listed in this catalog is current as of 05/2024
A maximum of 2 hours of MSE 529 or MSE 559 in combination may be applied toward the degree. Students will be expected to present an oral report on their internship in either course, as appropriate, the semester following completion of the internship.

| Minimum GPA: | 3.0 |

Students who are admitted to the M. Eng. program are responsible for finding a suitable internship. Department or college staff may be able to help students in their search for a suitable placement suitable internship but the department does not guarantee a placement. The MSE 958 internship requires approval by the departmental Director of Graduate Studies to ensure that it matches the student’s individual career objectives and meets the learning goals of the program. Students taking an internship as part of their undergraduate B.S program should also check with the Director of Graduate Studies; his/her approval is required if the student is already accepted in the combined B.S./M.Eng. Program. Students returning to the university after having had materials engineering employment experience, if it is deemed appropriate, may use that as their internship and base their report on that experience.

**for the degree of Master of Engineering in Materials Engineering**

1. The ability of students to function as independent scientists and engineers.
2. A deep understanding of the underlying principles of the appropriate theories in their subject area.
3. A deep understanding of the underlying principles of the synthesis and preparation of their subject materials.
4. A deep understanding of the underlying principles of characterization of their subject materials.
5. A deep understanding of the underlying principles of processing of their subject materials.
6. A deep understanding of interrelationships of structure, processing and properties of their subject materials.
7. A broad knowledge of the preparation, characterization and processing of all types of materials.

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**Materials Science & Engineering**

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**Grainger College of Engineering**

Grainger College of Engineering website (https://grainger.illinois.edu/)

**Admissions**

Materials Science & Engineering Admissions (https://matse.illinois.edu/admissions/graduate-admissions/)
Graduate College Admissions & Requirements (https://grad.illinois.edu/admissions/apply/)