MATERIALS SCIENCE & ENGINEERING, BS AND MATERIALS ENGINEERING, MENG

for the joint degrees of Bachelor of Science Major in Materials Science & Engineering and Materials Engineering, MEng

This program is not currently accepting applications.

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Requirements

B.S. Component (120 hours)

• Same required courses as the traditional B.S. degree with minimum hours reduced to 120 hours
• The reduction of 8 credit hours includes:
  • 5 hours of free electives.
  • 3 hours of the area specialty course in a different area (the latter becomes part of M.Eng. program requirements)
• At least one semester (or 2 summers) devoted to an industrial internship or co-op.2
• It is strongly suggested that the student take 2 courses in some aspect of business, economics, environmental studies, labor and industrial relations, technology entrepreneurship or technology and management as the elective component of their Liberal Education requirements. Partial or complete fulfillment of the Technology and Management or Business minor or the Technology Commercialization Certificate is recommended for those admitted by application if available hours permit. The students are expected to complete, during the combined program, at least 10 hours of courses in the areas of business, technology management and/or entrepreneurship from an approved list (available from the department), with additional hours recommended. It is noted that since receipt of the B.S. degree is delayed until the requirements for the M. Eng are completed, the student has the opportunity to complete the undergraduate minors while taking the M. Eng requirements.
• Overall GPA of 3.00 maintained through completion of B.S. component of the program and minimum residency requirements satisfied.

M.Eng. Component (minimum 36 additional hours of coursework)

• 36 hours course work, including at least 19 graduate hours of MatSE courses with 12 hours credit overall in 500-level courses. The course work shall include MSE 585 (two semesters or equivalent, 30 weeks total, of industrial internships or co-ops; one of the semesters can be during the B.S. program)1, 6 hours of 400- or 500-level area specialty courses in the student's area, 3 hours of 400- or 500-level MSE courses from a different area, 2 hours of MSE 595, and 2 hours of MSE 529 or MSE 559. Ten hours of courses in one or more of the areas of business or technology management, and entrepreneurship are required to be included in the overall program. Completion of the requirements for the various Certificates granted by the Technology Entrepreneur Center is recommended
• MSE 492; credit does not count toward degree.

1 Students find internship companies and positions with the help of the departmental and College Placement offices. The MSE 585 internship requires approval by the departmental Director of Graduate Studies to insure 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 will be expected to present an oral report on their internship in either MSE 529 or MSE 559, as appropriate, the semester following completion of the internship.

Information listed in this catalog is current as of 02/2022