ACCELERATED 5-YEAR BS/MS DEGREE

BS IN CHEMISTRY OR PHYSICS / MS IN MATERIALS SCIENCE AND ENGINEERING

How does the accelerated program work? Students finish the lower level coursework for the bachelor’s degree in a little over three years. In the fourth year, students combine bachelor’s- and master’s-level courses. In the fifth year, students are admitted to the Graduate School and focus solely on graduate work including research.

TYPICAL TIME LINE FOR THIS PROGRAM

Freshman through Junior years (3 years)
- Take required lower level courses as reference in the BS handbook

Junior year
- Talk with an advisor and declare intent to join the accelerated MSE program

Senior year (4th year)
- Take upper level courses with 8 to 12 credits being *cross-over courses

Graduate year(s)
- Complete required MSE coursework and research

* Courses in which the credits will count towards both your BS and your MS
CHEM411/ CHEM511/ MSE511 - CHEM 444/ CHEM 544 - PHYS 472/ MSE 572

GRADUATION REQUIREMENTS

Master’s Degree with Research Thesis:
- Coursework (24 credits minimum)
- MSE 599: Thesis (6 credits)
- Submission of a master’s thesis with oral defense

REQUIRED MSE COURSE WORK

- ** MSE 511: Techniques for Studying Solids
- MSE 590: Materials Communications & Seminar
- MSE 593: Frontiers in Materials Science
- Materials Structure and Properties (at least one)
  - MSE 562: Mechanical Behavior of Engineering Materials
  - ** MSE 572: Physics of Materials
  - ** CHEM 544: Chemistry of Solids
- Thermodynamics, phase equilibria, and reactivity of materials (at least one)
  - MSE 560: Thermodynamics of Materials
  - MSE 566: Reactivity of Materials
- Experimental techniques in materials science (at least one)
  - MSE 565: Crystallography & Diffractron
  - MSE 570: Transmission Electron Microscopy
  - MSE 569: Scanning Electron Microscopy

** Cross over courses

MSE Accelerated Program
Fast – Smart – Affordable – Convenient
Apply Today

CONTACT MSE

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