



# Diffusion and Interface Kinetics

## MATSCEN 6737

**Credit Hours:**

3.00 - 3.00

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**Course Levels:**

Graduate (5000-8000 level)

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**Course Components:**

Lecture

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**Course Description:**

Detailed atomic and phenomenological descriptions of rate limiting steps, diffusion, and interface kinetics with applications involving mass transport and phase transitions in the solid state.

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**Prerequisites and Co-requisites:**

Prereq: Grad standing in MatScEn, or permission of instructor.

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**Course Goals / Objectives:**

- Provide a fundamental understanding of diffusion-controlled kinetics in the solid state
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**Course Topics:**

- Diffusion
  - Kinetics of diffusion-controlled phase transformations
  - Microstructural evolution
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**Designation:**

Elective

Required