**Diffusion and Interface Kinetics**

**MATSCEN 6737**

**Credit Hours:**
3.00 - 3.00

**Course Levels:**
Graduate (5000-8000 level)

**Course Components:**
Lecture

**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.

**Prerequisites and Co-requisites:**
Prereq: Grad standing in MatScEn, or permission of instructor.

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

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

**Designation:**
Elective
Required