



**THE OHIO STATE UNIVERSITY**  
COLLEGE OF ENGINEERING

# Solid Surfaces and Interfaces

## MATSCEN 7845

**Credit Hours:**

2.00 - 2.00

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**Course Levels:**

Graduate (5000-8000 level)

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**Course Components:**

Lecture

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**Course Description:**

Elements of surface and interface science. Thermodynamics, structure, microstructure and kinetics of interfacial phenomena in materials.

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**Prerequisites and Co-requisites:**

Prereq: 6730, 6737, and 6747.

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**Course Topics:**

- Thermodynamics of Surfaces and Interfaces
  - Surface & Interface Structure
  - Surface Energy, Anisotropy, and Equilibrium Forms
  - Interfacial Segregation
  - Kinetic Phenomena
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**Designation:**

Elective