



**THE OHIO STATE UNIVERSITY**  
COLLEGE OF ENGINEERING

# Advanced Metals Laboratory

## MATSCEN 5431

**Credit Hours:**

1.00

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**Course Levels:**

Undergraduate (1000-5000 level)

Graduate (5000-8000 level)

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**Course Components:**

Lab

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**Course Description:**

Advanced laboratory covering various topics in metallic materials.

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**Prerequisites and Co-requisites:**

Prereq: 2241, 2331, 3141, 3261, and 3332. Prereq or concur: 5441 or 5451; or permission of instructor.

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**Course Goals / Objectives:**

- Reinforce principals and topics covered in the advanced metals lecture sequence
  - Introduce experimental and investigational methods used in the metals field
  - Develop skills in data gathering, analysis, and report preparation
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**Course Topics:**

- In this laboratory students will complete four out of the six typical experiments listed below under "Representative Assignments". Each experiment will be completed in two weeks. Additional experiments will be added when appropriate.
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**Designation:**

Elective