

**Met/MSE 101: Introduction to Metallurgy and Material Science  
Fall Semester**

**Course Information:**

Course title: Introduction to Metallurgy and Material Science  
Course number: Met/MSE 101  
Credit hours: 1 credit  
Classroom: McClure 315 (Wednesday, 3:30)

**Instructor Information:**

Instructor: Dr. Keith Prisbrey  
Office: McClure 407C  
Office phone: 885-6743  
Office hours: M-F 9:30-11:30 or by appointment  
E-mail: pris@uidaho.edu

**Textbook:** Class handouts will be provided be for class

**Course Objectives:**

This course is designed to introduce freshmen students in metallurgy and materials science to an overview of the field, the culture of the student ASM/TMS organization, and to establish connections and pathways for help and mentoring.

**Learning Objectives:**

1. Understand the professional field, responsibilities, and opportunities in metallurgy and material science
2. Connect the need for chemistry, physics, and math to real-world problems in metallurgy and materials science

**Grading System:**

|                 |     |
|-----------------|-----|
| Attendance      | 50% |
| Written reports | 50% |

Standard University of Idaho grading policy applies.

**Course Schedule:**

| Class | Topic   |
|-------|---|
| 1     | Introduction and overview                     |
| 2     | ASM/TMS officers                              |
| 3     | Stress strain curves and example applications |

|   |  |
|---|--|
| 4 |  |
| 5 | Equilibrium diagrams, phases, and the states of matter                         |
| 6 |  |
| 7 | Heat –treating alloys  |
| 8 | Introduction to materials characterization concepts, XRD, SEM, TEM, AFM, other |

**Disability Support Services Reasonable Accommodations Statement:**

Reasonable accommodations are available for students who have a documented disability. Please notify the instructor during the first week of class of any accommodation(s) needed for the course. Late notification may mean that requested accommodations might not be available. All accommodations must be approved through Disability Support Services located in the Idaho Commons Building, Room 333.

- 885-7200
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- website at <www.access.uidaho.edu> or <www.webs.uidaho.edu/aap>