

Course Number

MER-213-01

Course Description

A basic engineering science course dealing with crystal structure, imperfections in solids, diffusion, mechanical properties of metals, dislocations and strengthening mechanisms, phase diagrams, phase transformations in metals, structure and properties of ceramics, and polymeric structures. The principles formulated in materials science allow engineers to understand the nature and behavior of a wide variety of engineering materials.

Includes a laboratory component.

Academic Term

20/FA

Instructor

Stehle, Yijing

Location & Meeting Time

Integrated Science & Engineering Complex-220 M/W/F 12:20PM-01:25PM LEC

Integrated Science & Engineering Complex-220 T 09:05AM-11:55AM LEC

Petition

N

Credits

1.00

Capacity

18

Total Students

16

Additional Information

[http://cs.union.edu/me\\_dept/me\\_dept.html](http://cs.union.edu/me_dept/me_dept.html)

Academic Department

Mechanical Engineering

Field Of Study

Mechanical Engineering (MER)