

- Course Number and Title: M E 504. Continuum Mechanics
- Catalog Description: Introduction to the fundamentals of the mechanics for continuous media. This covers the concepts and general principles common to all branches of mechanics to facilitate further study in various fields such as elasticity, plasticity, fluid, and continuum damage mechanics.
- Credit Hours: 3 Credits (3)
- Prerequisite(s) / Corequisite(s): Prerequisite(s): None
Corequisite(s): None
- Required: Graduate Core
- Course Availability: Spring Semester
- Instructor (Usual): Dr. Young H. Park (See <https://mae.nmsu.edu/people/faculty.html>)
- Textbook: None
- Course Learning Objectives: After completing this course, a student should be able to:
 - 1) Understand the fundamentals of the continuum mechanics, which covers the concepts and general principles common to all branches of mechanics to facilitate further study in various fields such as elasticity, plasticity, fluid, and continuum damage mechanics.
- Topics Covered:
 - Introductory continuum mechanics
 - Vectors and tensors
 - Stress
 - Motion and deformation
 - Continuum plasticity
 - Computational aspects of the theory