

Ae/AM/ME 215. Dynamic Behavior of Materials. *9 units (3-0-6); second term.*
Prerequisites: ACM 100 abc or AM 125 abc; Ae/AM/CE/ME 102 abc. Course will attempt to provide an understanding of the methodology of measuring dynamic behavior of materials and the interpretation of such experiments in terms of the underlying rate controlling mechanisms. Topics covered will be drawn from dynamic plasticity, adiabatic shear banding, dynamic fracture, dynamic viscoelasticity, and martensitic phase transformations. Material classes considered will include metals, elastomers, shape memory alloys, and biological tissues. Instructor: Clifton.