Engr 674: Fracture Mechanics
School of Engineering
Stress fields near crack tips; modes of fracture; stress intensity factors; numerical methods. Critical stress intensity; fracture toughness. Energy considerations; the J-Integral. Crack-tip plasticity; small-scale yielding; crack-opening displacement. Fatigue; cyclic deformation; fatigue crack initiation.
3 Credits

Prerequisites
- Engr 617: Continuum Mechanics (Minimum grade: C)

Instruction Type(s)
- Lecture: Lecture for Engr 674

Subject Areas
- Engineering, General
- Mechanical Engineering
- Civil Engineering, General