

BMEN2320 - Statics

[BMEN 2320](#) Statics (3 semester credit hours) Lecture course. Course material includes vector representations of forces and moments, free body diagrams, equilibrium of particles, center of mass, centroids, distributed load systems, equivalent force systems, equilibrium of rigid bodies, trusses, frames and machines, internal forces in structural members, shear forces and bending moments in beams, friction, area and mass moments of inertia, the principle of virtual work. Prerequisites: [PHYS 2325](#) and [PHYS 2125](#). Prerequisites or Corequisites: [MATH 2415](#) or [MATH 2419](#) or equivalent. (3-0) S