ES A209 Statics 3 Credits
Analyzes force systems in two and three dimensions; discusses composing and resolving of forces and force systems; applies principles of equilibrium for various bodies and simple structures, friction, centroids, and moments of inertia. Applies concept of vector algebra wherever necessary.
Prerequisites: MATH A252 with a minimum grade of C and PHYS A211 with a minimum grade of C.

ES A210 Dynamics 3 Credits
Introduces kinematics and kinetics of particles and rigid body motion. Applies principles of work and energy, impulse and momentum to particles and rigid body motion. Applies concept of vector algebra wherever required.
Prerequisites: ES A209 with a minimum grade of C.