Engineering Breadth Requirement

Both the BSEE and BSCmpE degrees require a 3 credit course in an engineering field other than electrical and computer engineering. The ECE Curriculum Committee has reviewed the course offerings in the various engineering schools and considers the following courses as appropriate for fulfilling this requirement.

AAE 20300  Aeromechanics I, 3 cr.
Pre-requisite: PHYS 17200
Concurrent Pre-requisite: MA 26100

CHE 20500  Chemical Engineering Calculations, 3 cr.
Pre-requisites: ENGR 19500 Trans Ideas to Innov II, PHYS 17200, MA 16500 (or MA 16100)
Concurrent Pre-requisite: CHM 11600 (or CHM 12400)

CE 29700  Basic Mechanics I (Statics), 3 cr.
Pre-requisite: PHYS 17200
Concurrent Pre-requisite: MA 26100

CE 35300  Physico-Chemical Principles of Environmental Eng., 3 cr.
Pre-requisite: completion of freshman engineering requirements

CE 35500  Engineering Environmental Sustainability
Pre-requisite: Sophomore Standing

EEE 35500  Engineering Environmental Sustainability
Pre-requisite: Sophomore Standing

IE 33500  Operations Research - Optimization, 3 cr.
Pre-requisite: MA 26500
Concurrent Pre-requisite: IE 33200 (C programming skills and ECE 30200 will suffice)

IE 33600  Operations Research - Stochastic Models, 3 cr.
Pre-requisites: MA 26500, IE 23000 (C programming skills and ECE 30200 will suffice)
Concurrent Pre-requisite: MA 26600 (or MA 26200)

MSE 23000  Structure and Properties of Materials, 3 cr.
Pre-requisites: MA 16500 (or MA 16100), CHM 11500

ME 20000  Thermodynamics, 3 cr.
Pre-requisite: CHM 11500 (or CHM 12300)
Concurrent Pre-requisite: MA 26100

ME 27000  Basic Mechanics I, 3 cr.
Pre-requisite: PHYS 17200
Concurrent Pre-requisite: MA 26100

ME 41300  Noise Control, 3 cr.
Pre-requisites: MA 26600, PHYS 17200

NUCL 20000  Introduction to Nuclear Engineering I, 3 cr.
Pre-requisites: PHYS 17200, MA 16600 (or MA 16200)