Justification: To make the prerequisite more specific for MATH 5370.

MATH 5370 Mathematical Modeling Three semester hours.

This is the first course in mathematical modeling. Topics include: linear equations and models, non-linear equations and models, modeling with linear systems, modeling with non-linear systems, mathematical modeling and dynamical systems, non-homogeneous systems, empirical models and linear regression, bifurcation and chaos. Working knowledge of a computer programming language is preferred. Prerequisite: knowledge equivalent to MATH 3310 and MATH 3330 Graduate standing and permission of instructor.