

To: Faculty of the College of Engineering
From: Faculty of the School of Chemical Engineering
RE: CHE 348 prerequisite and corequisite changes

The faculty of the School of Chemical Engineering has approved the following change and submits it for your approval.

From:

CHE 348 Chemical Reaction Engineering

Sem 1, 2, Class 3, cr. 3

Prerequisites: CHE 211, MA 261

Application of kinetic rate equations, mass balances and energy balances to the analysis and design of chemical reactors involving homogeneous and heterogeneous chemical reactions. Chemical equilibria, kinetic rate equations for homogeneous and heterogeneously catalyzed reactions, design of ideal isothermal reactors, effects of non-isothermal operation, effects of diffusion in porous catalysts and non-ideal mixing in continuous flow reactors.

To:

CHE 348 Chemical Reaction Engineering

Sem 1, 2, Class 3, cr. 3

Prerequisites: CHE 211, MA 262

Corequisite: CHM 261

Application of kinetic rate equations, mass balances and energy balances to the analysis and design of chemical reactors involving homogeneous and heterogeneous chemical reactions. Chemical equilibria, kinetic rate equations for homogeneous and heterogeneously catalyzed reactions, design of ideal isothermal reactors, effects of non-isothermal operation, effects of diffusion in porous catalysts and non-ideal mixing in continuous flow reactors.

Rationale: Due to a change in the required MA sequence for CHE students, the faculty has determined that it better serves the students to have completed MA 262 prior to entering CHE 348. Also, upon discussion, it has been determined that it is important for the students to be exposed to CHM 261 course materials before or simultaneously with the course material in CHE 348, thus CHM 261 is to be added as a co-requisite for CHE 348.

A. Varma, Head
School of Chemical Engineering
Date: 12/14/06