

TO: Faculty of the College of Engineering

From: Faculty of the School of Chemical Engineering

Subject: Change in Prerequisite Requirements

The Faculty of the School of Chemical Engineering has approved the change in description of the course prerequisite listed below. This action is now submitted to the Engineering Faculty with recommendation for approval. Approval of the Faculty of the College of Engineering is requested for this change.

FROM:

**CHE 377 Momentum Transfer** Sem. 1. Class 3, cr. 3 (5 CHE). Prerequisite: CHE 205 and MA 266.

Differential (microscopic) and integral (macroscopic) mass, momentum, and energy balances. Newtonian and non-Newtonian fluids. Fluid statics. One-dimensional steady and transient laminar flows. Turbulence. Dimensional analysis and similarity. Friction factors and drag coefficients. Applications to engineering analysis of practical problems. Introduction to numerical analysis and visualization of flows.

TO:

**CHE 377 Momentum Transfer** Sem. 1. Class 3, cr. 3 (5 CHE).

Prerequisite: CHE 205; co-requisite: **CHE 211** and **MA 303** or equivalent.

Differential (microscopic) and integral (macroscopic) mass, momentum, and energy balances. Newtonian and non-Newtonian fluids. Fluid statics. One-dimensional steady and transient laminar flows. Turbulence. Dimensional analysis and similarity. Friction factors and drag coefficients. Applications to engineering analysis of practical problems. Introduction to numerical analysis and visualization of flows.

Reason: The prerequisite course numbers are updated.

A. Varma, Head  
School of Chemical Engineering

Date: 2/10/05