

ENGR 4300 : Chemical Reactors

This course provides an in-depth study of chemical reactors, which are key components in chemical processes that involve chemical reactions. Students will learn the principles of chemical reaction engineering, including reaction kinetics, thermodynamics, and reactor design. The course covers different types of reactors, such as batch, continuous stirred-tank, plug-flow, and packed-bed reactors, and their applications in various chemical processes. Students will also learn how to analyze and design chemical reactors based on reaction kinetics, mass and energy balances, and thermodynamic considerations. The course covers additional topics such as catalysts, reactor performance, and safety considerations in chemical reactors.

Credits 3

Course ID

009474

Requisites

ENGR 4300 Prerequisites: CHEM 2343, ENGR 3335

Semester Offered

Fall semester