

Chemical Engineering Department
College of Engineering
King Saud University
Chemical Reaction Engineering – CHE 302

Textbook: H. Scott Fogler, Elements of Chemical Reaction Engineering, 5th Edition (2016)

<i>Course Outlines</i>	
Chapter 1 Mole Balances	Chapter 7 Collection and Analysis Of Rate Data
Chapter 2 Conversion and Reactor Sizing	Chapter 8 Multiple Reactions
Chapter 3 Rate Laws	Chapter 9 Reaction Mechanisms, Pathways, Bioreactions, and Bioreactors (brief)
Chapter 4 Stoichiometry	Chapter 10 Catalysis and Catalytic Reactors (brief)
Chapter 5 Isothermal Reactor Design: Conversion	Chapter 11 Nonisothermal Reactor Design - the Steady State: Energy Balance and Adiabatic Per Applications
Chapter 6 Isothermal Reactor Design: Moles and Molar Flow Rates	Chapter 12 Steady-state Nonisothermal Reactor Design - flow Reactors with Heat Exchange