

# **TYPICAL B.S. CHEMICAL ENGINEERING CURRICULUM**

## **Chemistry**

General Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry

## **Math**

2 years of calculus, linear algebra, differential equations, numerical methods

## **Fundamentals**

Physics, Mechanics, Properties of Materials, Fluid Mechanics, Engineering Economics

## **Chemical Engineering Fundamentals**

Thermodynamics, Heat Transfer, Mass Transfer, Reaction Kinetics, Engineering Design, Unit Operations Laboratory, Process Dynamics & Control

## **Chemical Engineering Specialties**

Biomedical Engineering, BioChemical Engineering, Environmental Engineering, Electrochemistry, Petroleum Engineering, Polymer Engineering, Nuclear Engineering, Food Engineering

## **Non-Technical**

English, Technical Writing, Graphics, Ethics, Liberal Arts, ...