This course studies the effects of chemical reaction kinetics on systems of engineering significance. It introduces selection and operation of commercial chemical reactors emphasizing chemical kinetics and transport phenomena. It studies currently practiced engineering techniques associated with each of these reactors. Topics covered in this course include ideal reactors including batch CSTR and PFR isothermal and nonisothermal. Other topics may include catalytic reactors, bioreactors, reactors transient and steady state design, pressure drop in reactors, recycle, stability, and numerical methods.

Lessons: 40 @ 55 min (2.500 Att/wk)  Labs: 7 @ 120 min

Special Requirements: None

Prerequisite(s): CH362