

EMET 340 Mass Transfer & Chemical Kinetics

3 Cr. (Hrs.:3 Lec.)

Principles and applications of mass transfer and chemical kinetics to both extractive and physical metallurgy problems are discussed. Reaction rate theory is developed for both homogeneous and heterogeneous reactions. The operating characteristics of batch, continuous-stirred and plug flow reactors are developed and applied to metallurgical systems. Diffusion mechanisms and transformation rates in the solid state are examined. **Prerequisites:** CHMY 143 and M 273. (1st)