CHEE 301. RESOURCE RECOVERY AND CIRCULAR USE.

Credits: 3

Offered by: Chemical Engineering (Faculty of Engineering)

Terms offered: Winter 2026

View offerings for Winter 2026 in Visual Schedule Builder.

Description

Introduction to the concept of seeing human-generated waste material and energy as valuable resources, and to the emerging practices related to the circular use of resources. Topics: 1. Distribution, availability and geopolitics of natural resources; waste production and waste hierarchy; environmental impacts; incentives for recovery; classifying waste, challenges associated with large-scale recovery; thermodynamics of waste and resource recovery. 2. Detailed examples of resource recovery. 3.Environmental, health and safety considerations, local regulations and international exchanges. 4. Circular use of resources and circular economy: reuse, upgrade, remanufacture, recycling; product and process design for circular use.

- (3-0-6)
- Prerequisite(s): CHEE 204 and CHEE 220