

## **Biorenewable Chemicals (BR C)**

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**Courses primarily for graduate students, open to qualified undergraduates:**

**BR C 506. The Evolving Chemical Industry.**

(1-0) Cr. 1.

An overview of the chemical industry including structure and its evolution.

Discussion of the dynamics of recent introduction of biorenewable chemicals to the chemical industry.

**BR C 507. Entrepreneurship in Biorenewables.**

(Cross-listed with BRT). (1-0) Cr. 1. S. *Prereq: Graduate Standing or Permission of Instructor.*

Develop an understanding of the relationship between discovery research entrepreneurship and innovation in biorenewables. Understand critical techno-commercial analyses and intellectual property. Learn critical skills needed to found a company, including how to define key assets, write a business plan, leverage local resources, and secure funding.

**Courses for graduate students:**

**BR C 688. Catalysis and Catalytic Processes.**

(Cross-listed with CH E). (3-0) Cr. 3. *Prereq: CH E 382*

Principles and applications of heterogeneous and homogeneous catalysis.

Adsorption. Reaction kinetics and mass transfer effects. Catalyst characterization. Industrial catalytic processes.