

BIORENEWABLE CHEMICALS (BR C)

Any experimental courses offered by BR C can be found at:

registrar.iastate.edu/faculty-staff/courses/explistsings/ (<http://www.registrar.iastate.edu/faculty-staff/courses/explistsings/>)

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: Technology-Led 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.

BR C 590: Special Topics

(2-0) Cr. 2.

Special topics in biorenewable chemicals.

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.