

## COURSE DETAIL

### BIOPOLYMERS AND SUSTAINABLE POLYMERS

**Country**

Italy

**Host Institution**

University of Bologna

**Program(s)**

University of Bologna

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Chemistry

**UCEAP Course Number**

179

**UCEAP Course Suffix****UCEAP Official Title**

BIOPOLYMERS AND SUSTAINABLE POLYMERS

**UCEAP Transcript Title**

BIOPOLY SUST POLY

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course is part of the Laurea Magistrale degree program and is intended for advanced level students. Enrolment is by permission of the instructor. The course requires basic knowledge of organic chemistry, general chemistry, and physical chemistry concepts as a prerequisite. The course explores topics including polymers and production processes from renewable sources, processes of recovery and recycling of polymeric materials, depolymerization and degradation of polymeric materials, production of biodegradable polymers, membranes and polymeric technologies, and composite materials for the environment and energy. The course includes a lab session where students work with biodegradable materials in order to understand their properties. Students prepare a lab report about this experience.

## Language(s) of Instruction

English

## Host Institution Course Number

88385

## Host Institution Course Title

BIOPOLYMERS AND SUSTAINABLE POLYMERS

## Host Institution Campus

BOLOGNA

## Host Institution Faculty

## Host Institution Degree

LM in LOW CARBON TECHNOLOGIES AND SUSTAINABLE CHEMISTRY

## Host Institution Department

Industrial Chemistry

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