



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Laboratory of Organic Chemistry II (blended)

2223-2-E2702Q094-E2702Q096M

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#### Aims

The aim of course is to provide the student with the essential practical skills for a safe and corrected approach to experimental organic chemistry.

#### Contents

Aim of the laboratory part is to provide the student with a direct experience of the most common operations in organic synthesis, purification and basic characterization.

#### Detailed program

- safety procedures in the organic chemistry lab
- separations
- distillations
- crystallizations
- [chromatographies](#)

## **Prerequisites**

elements of organic, inorganic and physical chemistry

## **Teaching form**

During the Covid-19 emergency period, the lessons will take place in a mixed mode: partial presence and asynchronous videotaped lessons and laboratory experiences.

In detail, the students will be divided into 4 shifts each of a number compatible with the maximum capacity of the laboratory that will host the experiences.

Each student will form a virtual group with 3 students, each belonging to a different shift.

Each user will physically realize 2 of the 5 foreseen experiences.

During the realization of the experiment, the student will film the most significant operations carried out.

The video will be shared with the students who are part of your virtual group.

The laboratory reports will be group and will be the result of the comparison, carried out through an electronic platform, of the experiences carried out by each student and shared via video.

This material will be accompanied by edited video recordings that show the teacher performing all the experiences.

## **Textbook and teaching resource**

Experimental guide made by the teacher

## **Semester**

second year first semester

## **Assessment method**

evaluation of the performance in the lab and lab reports

In detail: the ability to work in compliance with current safety regulations, the ability to work independently and the mastery of the fundamental techniques of the organic chemistry laboratory will be evaluated. At the level of relationships, we will evaluate the ability to display the operations performed in a concise but complete manner, the ability to correctly manage the experimental data, also at the level of error theory.

The results obtained in terms of purity, identity and yield will be evaluated.

## **Office hours**

on request

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

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