



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Laboratorio di Chimica Organica III

1920-3-E2702Q101-E2702Q103M

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#### Aims

elements of functional groups elaboration and organic synthesis

#### Contents

examples of single and/or multi step organic reactions involving functional group transformations, diazocoupling reaction (synthesis of methylorange dye), Diels Alder reaction and an aldol condensation

#### Detailed program

- reduction of a ketone
- Friedel Craft Alkylation
- Oxidation of an aldehyde under green conditions
- dehydration of an alcohol
- synthesis of an azo dye
- Diels Alder reaction
- Aldol condensation

## **Prerequisites**

sound knowledge of basic organic chemistry

## **Teaching form**

lab experiences about the reactions and processes described in the detailed program

## **Textbook and teaching resource**

lab book prepared by the teacher

## **Semester**

third year first semester

## **Assessment method**

In details, the student will be evaluated on the basis of the capability to safely work in an organic chemistry lab, according to the best practices for every procedure. The capability to work in a team as well as the experimental results will be evaluated. As the experiences will involve either synthesis of molecules or elaboration of functional groups, for every single isolated sample yield, identity and purity will be evaluated. Finally, the quality and clarity of lab reports will be evaluated.

At the report level, attention will be paid to the correct handling of the experimental data, also in terms of errors theory.

## **Office hours**

upon request

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