



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Didattica della Biologia

1920-4-G8501R036-G8501R037M

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#### Course title

Didattica della biologia

#### Topics and course structure

Different topics of biology, ecology and environmental education

Particular reference will be devoted to the evolutionary history of man; to the analysis of climate change, to how to orientate futur teachers in updating their knowledge

#### Objectives

Aim of the course is teaching biology techniques, with a special reference to national programs.

A discussion about surfing and choosing news in biology will be proposed.

The ability of connecting the biology contents to evolutionary stories and to ecological relationships is another important aims of this course.

## Methodologies

Lesson, active teaching methodologies, practical laboratory

## Online and offline teaching materials

Slides and supplementary materials (paper and exercises) discussed in classroom

## Programme and references for attending students

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The course will cover the major topics of biology. Tentatively I will follow this pattern:

- Environmental education 1;
- Environmental education 2;
- Environmental education 3;
- Human ecology 1;
- Human ecology 2;
- Human ecology 3;
- Reading and understanding a scientific blog (practical activity);
- Reading and understanding a dissemination paper (practical activity);
- Reading and understanding a scientific paper (practical activity);
- Biology and literature;
- Biology and cinema;
- Scientific denials;
- Scientific museums;

Zoo and aquariums

## References

1) Padoa-Schioppa E. *Quaderni e strumenti per l'insegnamento e l'apprendimento della Biologia* Edises

2) A biology/ human anatomy textbook, for consultation is mandatory. Students may use a textbook of high school. In september 2018 I will provide some university textbook titles.

3) For all the students is mandatory to choose one book among:

Books titles will be provided in September 2018

During the lessons will be indicated and provided additional educational materials (articles and slides) that will integrate the preparation of the exam

## **Programme and references for non-attending students**

Same as attending students

## **Assessment methods**

Written and oral examination

Written part: test (multiple choice questions) and open questions. If the result of written part is positive oral part examination

The oral exam (if the written texts have been passed) will start from the written test, and will then extend to the verification of the knowledge of the whole program and of what has been learned in the laboratories

## **Office hours**

Monday at 16.30 after appointment by e-mail

## **Programme validity**

One academic year

## **Course tutors and assistants**

Claudia Canedoli

Simone Masin

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