



COURSE: Applied ecology

TEACHER: Daniele Mascanzoni

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website:

Language: Italian

ECTS: 6

n. of hours: 54

Academic year: 2015-2016

Campus: Potenza

Semester: I

#### TOPICS

The notion of ecosystem is widely discussed in relationship with human activities. General principles of applied ecology, energy flow and populations dynamics. Notions of dose, toxicity and biological compatibility. Evaluation of industrial activities, environmental pollution and models of sustainable growth. Energy production and environmental consequences. Alternative energy sources, nuclear power and radioecology.

#### TEACHING METHODS (please tick one or more options)

Theoretical lessons

Tutorials in classroom

Tutorials in laboratory

Project works

Technical visits

Other activities (please specify) \_\_\_\_\_

#### TEXTBOOKS

W.P. Cunningham, M.A.Cunningham & B.W. Saigo. Fondamenti di Ecologia, McGraw Hill

W.P. Cunningham, M.A.Cunningham & B.W. Saigo. Ecologia Applicata, McGraw Hill

#### ON-LINE EDUCATIONAL MATERIAL

web address: \_\_\_\_\_

#### LEARNING OUTCOMES

The aim of the course is to provide an environmental focus on engineering issues, whereas the importance of a multi-disciplinary approach to environmental problems is particularly emphasized.

#### REQUIREMENTS

#### EVALUATION METHODS (please tick one or more options)

Intermediate verifications

Written examination

Discussion of a project work

Practical test

Oral examination

Other methods (please specify) \_\_\_\_\_

#### DETAILED CONTENT

#### EXAMINATION SESSIONS (FORECAST)

26/1/2016, 27/1/2016, 4/7/2016, 5/7/2016, 20/10/2016, 21/10/2016

SEMINARS BY EXTERNAL EXPERTS YES  NO

#### FURTHER INFORMATION