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COURSE: Regional silviculture and ecosystem processes

COURSE. Regional silviculture and ecosystem processes											
TYPE OF EDUCATIONAL ACTIVITY: Basic											
TEACHER: Marco Borghetti											
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Phone: 0971 205246	mobile: 329 3606256										
Language: Italian											
ECTS: (lessons / n. of hours: tutorials/practice): 64 hours of lessons 10 32 hours of practice	Campus: Potenza School: SAFE Program: LM Forest and Environmental Sciences										

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

We provide knowledge on the characteristics, functionality and direction of change (with respect to expected climate and land-use changes) for the main Italian forests with special focus on the Mediterranean forests. The aim is to ensure that the student acquire the necessary know-how to define suitable tools and plans towards the adaptive management of forest ecosystems.

PREREQUIREMENTS

- LT (3-year degree): Forest and Environmental Science
- Forest ecology and general silviculture

SYLLABUS

Lessons

Consistency, general characteristics, functionality, silvicultural and management methods for the following Italian forests: Mediterranean macchia, evergreen oak forests, Mediterranean pine forests, deciduous oak forests, chestnut stands, beech and silver fir forests, Norway spruce, larch, Scots pine and stone pine forests.

Environmental physiology of forest trees and forest stands with special focus on carbon uptake and water relation processes and the functional response of forest ecosystems to climate change. Process-based models to predict the carbon uptake of forest ecosystems: general principles and main characteristics.

Practices

Case studies on the management of important Italian forests, from the Mediterranen to the sub-alpine belt.

TEACHING METHODS

64 hours of lessons 64 hours of laboratory and field practices. During practices students will be asked to analyze specific forest management case studies.

EVALUATION METHODS

Oral examination at the end of the course. Three questions, one of which related to topics addressed during practices.

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

- Teaching material distributed in classroom
- Onlne material

https://drive.google.com/file/d/1nkAG6KWh1Alx9yXZQvnO86kSxSzCuP6W/view?usp=sharing



https://drive.google.com/file/d/1vgo-_qYHkfkajuXbiobChpah-wmR_kkg/view?usp=sharing

- Del Favero R. (2008) I Boschi delle regioni meridionali e insulari dell'Italia. CLEUP, Padova.
- Waring, R.H., and S.W. Running (1998). Forest Ecosystems: Analysis at Multiple Scales. Academic Press, San Diego

INTERACTIONS WITH STUDENTS

- in the office at planned days/hours (usually on Wednesday)
- email: marco.borghetti@unibas.it (every time)
- skype: Marco.borghetti_parma (every time)
- mobile: 00393293606256 (every time)

EXAMINATION SESSIONS (Forecast)

Calendar online:

https://unibas.esse3.cineca.it/Home.do

Usually the third Wednesday of every month (except August)

EVALUATION BOARD

Marco Borghetti Agostino Ferarara Francesco Ripullone

SEMINARS BY EXTERNAL EXPERTS YES