

**ACADEMIC YEAR: 2016-2017**

COURSE: Forest management and Forest inventories

TYPE OF EDUCATIONAL ACTIVITY: Basic

TEACHER: Agostino Maria Silvio Ferrara

e-mail: agostino.ferrara@unibas.

Web:

[http://www.researchgate.net/profile/Agostino\\_Ferrara](http://www.researchgate.net/profile/Agostino_Ferrara)

Phone: +39 0971 205534

mobile: +39 329 3606257

Language: Italian

ECTS: (lessons / tutorials/practice): 12	n. of hours: 80 hours of lessons 32 hours of practice	Campus: Potenza School: SAFE Program: LM Forest and Environmental Sciences	Semester: I & II
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#### EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The class covers the most fundamental decisions forest managers make in managing public and private forests, including stand and forest-level decisions.

#### PREREQUIREMENTS

- LT (3-year degree): Forest and Environmental Science
- Forest mensuration, Silviculture

#### SYLLABUS

##### Lessons

*First part (3 credits, Auxology).* Concepts of stand and forest growth and development; production process of trees and whole stands; modeling of growth and yield processes.

*Second part (6 credits, Forest management).* Objectives, content, creating process, ratification process of Forest Management Plan; Frame planning, Management sets of stands, Frame management schedules; Special methods in forest management. Introduction to the sampling methods, log scaling and aerial photo interpretation. Measurements of timber stand growth, quantity and quality, and other forest products including range, wildlife and outdoor recreation.

*Third part (3 credits, Forest inventory).* Sampling Techniques for Forest Resource Inventory. Design and conduct a Forest inventory; software and tools for managing a Forest inventory; analysis of Regional/National Forest Inventories.

##### Practices

Case studies on the forest management of different Italian forests, from the Mediterranean to the sub-alpine belt.

#### TEACHING METHODS

80 hours of lessons delivered into the classroom and 32 hours of laboratory and field practices in different forest environments. During practices students will be asked to put into practice theoretical knowledge. Students are expected to actively participate in all aspects of this course. Attendance is highly recommended.

#### EVALUATION METHODS

Written test, written report on the field practices and oral examination.

#### TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

G. Bovio, O. la Marca, 1996. Manuale di Assestamento. Editore: Bosco e Ambiente, Frontone (PS). Tel. 0721 786336.

G. Bernetti, 1989. Assestamento Forestale. DREAM Italia Edizioni, Firenze.

O. la Marca, 1999. Elementi di Dendrometria. Patron Editore, Bologna.

P. CORONA Introduzione al rilevamento campionario delle risorse forestali, CLUSF Firenze 2000.



**INTERACTIONS WITH STUDENTS**

- in the office at planned days/hours (usually on Tuesday)
  - email, Skype (every time)
  - mobile (every time)
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**EXAMINATION SESSIONS (Forecast)**

Calendar online:

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

Usually the third Wednesday of every month (except August)

**EVALUATION BOARD**

Agostino Ferrara  
Marco Borghetti  
Francesco Ripullone

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**SEMINARS BY EXTERNAL EXPERTS      YES**

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