

COURSE: Pasture management and herbaceous crops

ACADEMIC YEAR: 2016/17

TYPE OF EDUCATIONAL ACTIVITY: Characterizing

TEACHER: Antonio Sergio De Franchi

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Language: italian

ECTS: 6 + 1

n. of hours: 40 + 16

Campus: Potenza  
School of Agriculture, Forestry,  
Food and Environmental sciences  
Program: Agricultural technologies

Semester: 1<sup>st</sup>

#### EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

##### Content and knowledge

The course examines the herbaceous forage crops of possible cultivation and management in natural environments, and arable land in the mountain. He studies the selection of the species and varieties, cultivation techniques suitable for production use and soil conservation and environmental protection. The choice of crops, limited by soil and climate factors, narrows to those that have a good chance of yield and positive economic results in the enhancement of the environment. The cultivation and agronomic management of different forage species (grasslands, meadows-grazing meadows and pastures), of some cereals and grain legumes, in intensive cropping systems, extensive and natural.

##### Skill

The student will acquire skills relating to: the knowledge of the dynamics of cultural processes and interaction with the environment of the herbaceous species studied in Mediterranean environments; the ability to apply knowledge and understanding in order to design choices and agronomic cultivation and management of herbaceous formations in natural and artificial systems, and of cereals and leguminous crops; the ability to communicate and properly transmit the acquired knowledge and implement them with agro-cultural practices in the mountain, hill and lowland areas.

#### PRE-REQUIREMENTS

Knowledge of the principles of Agronomy

#### SYLLABUS

ECTS 1: the role of the herbaceous and forage crops in sustainable cropping systems with an environmental protection point of view. Aspects and climatic elements and their interaction with cultivated plants.

ECTS 2: possible herbaceous crops: wheat, barley, oats, rye, triticale, corn, rapeseed, sunflower: cultivation and agronomic management techniques.

ECTS 3,4,5: grasslands; meadows and meadows-pastures; pastures: agricultural techniques of cultivation and the main species grasses and legumes management.

ECTS 6: Exercises: case studies and management aspects of crops and herbaceous natural formations.

#### TEACHING METHODS

The course is organized as follows: lectures on all subjects of the course (40 hours); exercises in the open field (16 hours).

#### EVALUATION METHODS

Final oral examination during which we will evaluate the critical capacity of connection and comparison of the different aspects of the agronomic management of herbaceous crops grown in the Mediterranean agricultural environments.



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**TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL**

Giardini L. e Baldoni R.: Coltivazioni erbacee. Ed. Patron

Baldoni R., Kokeni B., Lovato A.: Le piante foraggere. Ed. Reda

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**INTERACTION WITH STUDENTS**

Reception in the studio in days / times scheduled

Contacts e-mail and telephone.

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**EXAMINATION SESSIONS (FORECAST)<sup>1</sup>**

Typically the first and the last Wednesday of each month except August.

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**SEMINARS BY EXTERNAL EXPERTS**      YES

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**EVALUATION BOARD**

Prof. Antonio Sergio DE FRANCHI, Prof. Michele PERNIOLA, Prof. Piergiorgio GHERBIN, Prof. Anna Rita RIVELLI, Dr. Giuseppe LANDI

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<sup>1</sup> Subject to possible changes: check the web site of the Teacher or the Department/School for updates.