



ACADEMIC YEAR: 2017-2018

COURSE: SUSTAINABLE ANIMAL HUSBANDRY

TYPE OF EDUCATIONAL ACTIVITY: BASIC

TEACHER: Carlo Cosentino

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mobile:

Language: **Italian**

ECTS: (lessons/ tutorials/practice): **6**
(**5** frontal lectures = LF +
1 practice = E)

n. of hours: 56
40 hours LF
16 hours E

Campus: Potenza
School: SAFE (School of Agriculture,
Forest, Food and Environmental
Sciences)
Program: LT - CL25 Forest and
Environmental Sciences

Semester:
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EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The main aim of course will be to provide needed understanding and knowledge to acquire planning and management capacity of livestock farms with emphasis on semi-extensive and extensive farming systems.

- **Knowledge and understanding:** knowledge and understanding of the general principles
 - **Applying knowledge and understanding:** ability to read and write the formulas of the most common productivity, sustainability and zootechnical calculations
 - **Make judgments:** ability to select and apply the best procedure for solving simple assessments and zootechnical designs
 - **Communication skills:** ability to organize in a logical way and to communicate, using an appropriate and correct language as well, the acquired knowledge.
 - **Learning skills:** ability to collect and organize in a functional way the information coming from class lectures, suggested books, and literature data.
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PREREQUIREMENTS None



SYLLABUS

LIVESTOCK PRODUCTION (ECTS 1 = 8h LF)

Farming systems. Livestock breeding in protected areas and interactions with livestock (PAC regulations). Disciplinary production (EC Reg. 2529). Grid EEC, slaughter and meat input (Decree Law 286/1994 and R.D. 3298). Production, processing and marketing of milk (DPR 54/97 and 92/46 and 92/47 EEC and DM 185/91).

LIVESTOCK BIODIVERSITY (ECTS 2 = 8h LF)

Elements of reproductive physiology. Morphological and functional characteristics of farm animal. Animal productions and market.

LIVESTOCK SYSTEMS (ECTS 3 = 8h LF)

Methods for evaluating the efficiency of livestock production. Influence of rearing system, of feeding, of milking rooms etc. The RSP, systems and organizations for the development and implementation of livestock.

LACTOGENESIS AND GALACTOPOIESIS (ECTS 4 = 8h LF)

Lactogenesis and galactopoiesis in relation to genetic and environmental factors conditioning the function. Breeding technologies in relation to the type of production for each species, breed, and genetic type.

MEAT PRODUCTION (ECTS 5 = 8h LF)

Meat production, in relation to genetic and environmental factors. Basic elements to improve the quality production and knowledge about farming systems in relation to the corporate system.

FRONTAL EXERCISES AND EXERCISE EXTERIOR VIEWS (ECTS 6 = 16 h E)

Frontal exercises: calculation of the sustainable load in relation to the Nitrates Directive.

Exercise exterior views: on farms and/or trade fairs

TEACHING METHODS

40 hours of lessons with Movies, P. Point, PDF; 16 hours of practices for calculation of procedures and / or for technical visits to farms (to see a number of technical and operational aspects of livestock).

EVALUATION METHODS

The aim of the examination is to test the level of understanding of educational goals. The exam consists of a written examination (time available one hour, it is not allowed to consult texts or use PCs and smartphones): open and multiple questions; exercises concerning sustainable animal load. This test evaluates the learning of topics course and it is a selection for oral examination. The student who does not show sufficient knowledge of topics is not admitted to the next oral examination .

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

- ANTONGIOVANNI M., e GUALTIERI M., Nutrizione e alimentazione animale. Edagricole, Bologna, 1998.
 - APA-Regione Basilicata – Latronico (PZ) – 1995 - L'allevamento ovino e caprino in Basilicata orientamento, attività selettiva e patologie.
 - BALASINI D., Bovini e bufalini. Edagricole, Bologna, 2000.
 - BALASINI D., Ovicaprini. Edagricole, Bologna, 2000.
 - BALASINI D., Suini. Edagricole, Bologna, 2000.
 - BALASINI D., Equini. Edagricole, Bologna, 2000.
 - BALASINI D., Zootecnica Speciale –Edagricole Bologna-1990;
 - BETTINI T.M. - Elementi di Scienza delle produzioni animali, Edagricole, BO, 1987;
 - BONADONNA T. – Etnologia zootecnica, Utet, Torino, 1976.
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- BORGIOLO E., Genetica e miglioramento degli animali agricoli. Edagricole, BO, 1993.
- DAVID SAINSBURY. Farm Animal Welfare. Collins, 1986.
- DERIVAUX J.,- Riproduzione degli animali domestici I Fisiologia – Patron,BO –1974;
- GRAU R., Scienza della carne. Edagricole, Bologna, 1984.
- MONETTI P.G. 2001. Allevamento dei bovini e dei suini. C. Giraldi Editore, BO.
- HOUPPT K.A. Il comportamento degli animali domestici. EMSI, Roma, 2003.
- PARIGINI BINI R., Le razze bovine. Patron, Bologna, 1983
- PARIGINI BINI R., SAMEDA, DE MARCO A., Zootecnica speciale dei bovini, vol. I e II. Patron, Bologna, 1989
- PORTOLANO N. - Igiene dell'allevamento ovino e caprino – Edagricole – BO,-1987;
- PULINA G. – L'alimentazione degli ovini da latte – Avenue media – Bologna- 2001;
- REGIONE BASILICATA – Dipartimento Agricoltura – 1999 - Guida pratica alle norme igienico sanitarie per la produzione e trasformazione del latte in azienda ;
- SUCCI G., La vacca da latte. Città Studi, Milano, 1993.
- SUCCI G. – Zootecnica speciale, Clesav, Milano, 1983.
- TORTORELLI N. – Zootecnica Speciale, Edagricole, Bologna, 1984.
- UNAPOC – MIPA –Roma –1992 – Ovinicoltura;
- ZUCCHI G., – Zoonomia – Economia del sistema delle produzioni animali - Avenue media – Bologna- 2001

Part of the course material will be provided by the teacher, another part is available on the World Wide Web system and on the website



<http://www.biodiversitazootecnica.it>

INTERACTIONS WITH STUDENTS

At the beginning of the course, after describing the objectives, program and methods of verification, the teacher provides students educational materials. Simultaneously, it collects a list of students who intend to enroll in the course, together with name, serial number and e-mail. Through mailing list will be sent slides and P.Point, PDF, Scientific articles, links to related sites Topics covered etc.)

Office hours: Tuesday, Wednesday and Thursday from 16:30 to 18:30

In addition is available at all times for a contact with the students, through e-mail carlo.cosentino@unibas.it and phone number 0971.205044.

EXAMINATION SESSIONS (Forecast)

Usually the third Friday of every month (except August)

EVALUATION BOARD

Carlo Cosentino

Pierangelo Freschi

Ada Braghieri

SEMINARS BY EXTERNAL EXPERTS YES
