

COURSE: Sustainable animal production

ACADEMIC YEAR: **2016-2017**

TYPE OF EDUCATIONAL ACTIVITY: Basic

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Language: Italian

ECTS: 6 (5 lessons; 1 seminars, farm and laboratory practice)	n. of hours: (lessons e tutorials/practice) 40 lessons 16 seminars, farm and laboratory practice	Campus: Potenza School: SAFE Program: MSc Food Science and Technology	Semester: II
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EDUCATIONAL GOALS

The aim of the course is providing basic knowledge on the environmental and ethical sustainability of animal based enterprises. In addition, the course aims to supply the appropriate information for a reliable evaluation of the impact of farms on the environment and on animal welfare.

EXPECTED LEARNING OUTCOMES

At the end of the course, the students will be able to perform the assessment of the environmental impact of various animal based enterprises. In addition, they will know the main tools needed to monitor the welfare of the animals at farm level. The main positive and negative effects of different farming systems will be also recognized.

PRE-REQUIREMENTS

A basic knowledge concerning animal production is required

SYLLABUS

Lessons

Students will receive information concerning the sustainability of various animal products in relation to different housing and management systems. The attention will be focussed on: the minimisation of the environmental impact in terms of global warming potential, acidification potential, eutrophication potential, non-renewable energy use, water footprint, land use; minimisation of competition with human nutrition; maximisation of animal welfare; biodiversity preservation. Students will receive basic elements for the assessment of the impact of various animal production systems at different levels, including environmental impact and animal welfare.

Practices

Seminar, laboratory and farm practice will be conducted in order to acquire the ability to assess the effect of various farming techniques on animal welfare and on the environment.

TEACHING METHODS

Theoretical lessons (40 hours), seminars, laboratory and farm practices (16 hours). During practices, students will simulate all phases of a microbiological analysis of food and at the end of the course they will gain the ability to interpret correctly the results.

EVALUATION METHODS

Oral examination, based on the assessment of theoretical knowledges and laboratory practices.

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

TESTI DI RIFERIMENTO E DI APPROFONDIMENTO, MATERIALE DIDATTICO ON-LINE

- P. G. Monetti. 2001. Allevamento dei Bovini e dei Suini. Giraldi Editore, Città di Castello (PG).

- E. Kebreab. 2013. Sustainable Animal Agriculture. CAB International Publishing, UK.

- F. Napolitano, G. De Rosa, F. Grasso. 2007. Comportamento e benessere degli animali in produzione zootecnica, Aracne

Editrice, Roma.

- Notes and teaching materials concerning aspects not covered by the textbooks.

INTERACTION WITH STUDENTS

At the beginning of the course, objectives, program and methods of evaluation will be described; furthermore, it will be collected the list and data of students attending the course. During the lessons, teaching materials (shared folders) will be provided. Students may contact the teacher anytime by e-mail and WhatsApp for clarifications or to set an appointment in his office at SAFE, IV floor, Viale dell'Ateneo Lucano 10, Potenza.

EXAMINATION SESSIONS (FORECAST)¹

Whenever requested, a date will be agreed with the students.

SEMINARS BY EXTERNAL EXPERTS YES NO

FURTHER INFORMATION

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