COURSE OUTLINE

1. GENERAL INFORMATION

SCHOOL	APPLIED ECONOMIC AND SOCIAL SCIENCES		
ACADEMIC UNIT	AGRIBUSINESS AND SUPPLY CHAIN MANAGEMENT		
LEVEL OF STUDY	*Undergraduate*		
COURSE CODE	**680**	**SEMESTER**	6th
COURSE TITLE	ANIMAL NUTRITION		
INDEPENDENT TEACHING ACTIVITIES		**WEEKLY TEACHING HOURS**	**CREDITS**
Lectures		2	4
Laboratory Exercises		2	
COURSE TYPE	Special Background – Skills Development		
PREREQUISITE COURSES:	NO		
LANGUAGE OF INSTRUCTION and EXAMINATIONS	Greek		
IS THE COURSE OFFERED for ERASMUS STUDENTS?	YES (in English)		
COURSE WEBSITE (URL)	https://oeclass.aua.gr/eclass/		

2. LEARNING OUTCOMES

Learning Outcomes

The aim of the course is:

The purpose of the course is to provide students with theoretical training in animal nutrition, since it is universally accepted that nutrition is a critical factor affecting animal health, welfare and productivity, production costs and quality of animal products.

Upon successful completion of the course, the student will be able to:

• Distinguishes the basic principles of farm animal nutrition
• Understands the basic "tools" for dealing with theoretical and practical problems that arise in the modern business environment
• Identify problems and propose alternative solutions related to the actions of each organization
• Distinguishes the main axes of the subject of modern management and its affinities with related scientific disciplines as well as the characteristics of the Manager of the future.
• Understand the importance and the way of operation of the examined public and private organizations

General Competences

Adapting to new situations

Decision-making

Working independently

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Production of new research ideas Teamwork

Project planning and management

Respect for difference and multiculturalism

Respect for the natural environment

Showing social, professional, and ethical responsibility and sensitivity to gender issues

Criticism and self-criticism

Production of free, creative and inductive thinking

3. SYLLABUS

1. Introduction - Digestive system anatomical elements and physiology of digestion
2. Feed
3. Feed additives
4. Diet/Ration
5. Feed Efficiency
6. Nutrition Systems and Nutrition Techniques
7. Cattle nutrition and feeding
8. Sheep/Goats nutrition and feeding
9. Swine nutrition and feeding
10. Poultry nutrition and feeding
11. Nutrition and quality of livestock products
12. Organic Farming and Nutrition
13. Current challenges in animal nutrition

A combination of teaching and learning methods will be used, aiming at the active participation of the students and the practical application of the thematic units under examination; there will also be lectures using audiovisual media, discussions, and analyses of case studies on real business issues, experiential (group) activities, as well as projections of relevant videos. The students will also undertake an individual or group project. Furthermore, articles, audiovisual lecture materials, web links/addresses, useful information, case studies and exercises for further practice are posted in digital form on the AUA Open e-Class platform.

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face -to-face, Distance learning
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY	• Support of the learning process through the University's AUA Open eClass platform (integrated e-Course Management System) • Support of lectures using presentation software • Use of audiovisual material • Use of web applications **Communication with students**: face-to-face at office hours, email, eclass platform
TEACHING METHODS	

Activity	*Workload*

	Lectures (direct)	65
	Writing paper/ papers	28
	Independent Study	30
	Advisory support	0,5
	Exams	***2***
	Course Total (Approximately 25 hours of workload per credit unit 125.5)	***125,5 h***

STUDENT PERFORMANCE EVALUATION

The evaluation process is in the language that the course is taught (Greek or English) and consists of:

i. Compulsory written final examination at the end of the semester (weighting factor **70**% at least) which may includes:

- Multiple choice questionnaires
- Open-ended questions
- Problem solving
- Oral examination

Evaluation criteria: correctness, completeness, clarity

ii. Optional written exam or essay during the semester (weighting factor 30%) which may includes:

- Multiple choice questionnaires
- Open-ended questions
- Problem solving
- Essay/report
- Oral examination

Evaluation criteria: correctness, completeness, clarity

learning difficulties:

Students with **special learning difficulties** in writing and reading (as they are certified and characterized by a competent body) are examined based on the procedure provided by the Department.

Specifically-Defined Criteria:
The evaluation criteria are made known during the first lesson and are clearly stated on the course website and the AUA Open e-class platform. The answers to the exam questions are posted on the AUA Open e-Class platform after the exam. The students are allowed to see their exam paper after its grading (during the announced office hours) and receive explanations about the grade they received.

5. ATTACHED BIBLIOGRAPHY

Suggested Bibliography in Greek Language:

- Φεγγερός Κ (2017): «Ζωοτροφές και Πρόσθετες Ύλες Ζωοτροφών (Βρωματολογία)», εκδόσεις UNIBOOKS ΙΚΕ.
- *Ζέρβα Γ (2013) : «Διατροφή Μηρυκαστικών Ζώων», εκδόσεις Αθ. Σταμούλη.*
- *Ζέρβα Γ, Καλαϊσάκη Π, Φεγγερού Κ (2004): «Διατροφή Αγροτικών Ζώων», εκδόσεις Αθ. Σταμούλη.*
- *Κατάρτιση Σιτηρεσίων Παραγωγικών Ζώων, Γ. Ζέρβα, Εκδόσεις Αθ. Σταμούλη, 2007*
- *Φυσιολογία Θρέψης Παραγωγικών Ζώων, Γ. Ζέρβα, Εκδόσεις Αθ. Σταμούλη, 2005*

Suggested Bibliography in English Language:

- *Animal Nutrition, Mc Donald, P., Edwards, R.A., Greenhalgh, J.F.D. and Morgan,C.a. 2002. Prentice Hall, Pearson Education Limited, ISBN 0 582 41906 9*

Related academic Journals:

- *Animal Feed Science and Technology*
- *Poultry science*
- *Journal of Animal Physiology and Animal Nutrition*
- *Journal of Animal Science*
- *Animals*
- *Animal Nutrition*
- *Small Ruminant Research*

Instructor's Notes