

**Livestock Production and Ecological Agriculture**

Code: 102667  
ECTS Credits: 3

Degree	Type	Year	Semester
2502445 Veterinary Medicine	OT	5	2

### Contact

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### Use of Languages

Principal working language: catalan (cat)  
Some groups entirely in English: No  
Some groups entirely in Catalan: Yes  
Some groups entirely in Spanish: No

### Other comments on languages

0

### Teachers

Joaquín Castellà Espuny  
Teresa Rigau Mas  
Francesc Xavier Such Martí  
Dolors Izquierdo Tugas

### Prerequisites

Although there are no established official prerequisites, it is recommended that students have passed the subjects of 3rd Animal Production Integrated I, Animal Integrated Production II, Animal Health I and Animal Health II, and 4th Animal Health III and review contents of Bases of the Production and Animal Management

### Objectives and Contextualisation

- To know the basics and practice of ecological agricultural and livestock production and its environmental, economic and social importance.
- To train veterinary students on the role they can take in the world of organic production
- to know the legislation and commercialization of organic agricultural products and the certification procedures in Catalonia and in the European Union.
- To foster and develop the capacity for analysis and criticism in relation to the different agrarian production systems.

### Competences

- Comunicar la informació obtinguda durant l'exercici professional de manera fluida, oralment i per escrit, amb altres col·legues, autoritats i la societat en general.
- Demonstrate knowledge and understanding of structural and functional disorders of the animal organism.
- Draft and present satisfactory professional reports, always maintaining the required confidentiality.
- Value and interpret the production and health parameters of one animal group, considering the economic and welfare aspects.

## Learning Outcomes

1. Analyse, interpret and evaluate the production and healthcare parameters of a farm or fishery and produce a plan of corrective actions considering the factors of animal welfare, environmental protection and product quality.
2. Apply livestock farming as a tool for the management and conservation of the territory.
3. Apply the basic principles of ecological production.
4. Communicate information obtained during professional exercise in a fluid manner, orally and in writing, with other colleagues, authorities and society in general.
5. Describe the basic principles and problems of livestock health and production in developing countries.
6. Draft and present satisfactory professional reports, always maintaining the required confidentiality.

## Content

### Block I. FOUNDATIONS OF ECOLOGICAL PRODUCTION

- The evolution of agricultural production: traditional, intensive and ecological production.
- Sustainability in organic production.
- The production of organic food for livestock.

### Block II. LEGISLATION AND MARKETING

- The regulations, the certification and the control of the organic production.
- The conversion to organic production.
- The quality of organic products.
- Marketing.
- Associationism and consumer cooperatives.

### Block III. PLANT PRODUCTION SYSTEMS

- The organic production of ruminants
- The organic production of pigs
- The organic production of birds
- The organic production of other species.

### Block IV. HEALTH IN THE ORGANIC PRODUCTION

- Prevention and sanitary control.
- Recommended veterinary treatments.

## Methodology

**Theoretical classes:** With these classes the student acquires the basic scientific-technical knowledge of the subject that must be completed with the personal study of the topics explained. In these classes, the teacher will do a first exposition of the subject indicating what are the most relevant aspects, and will also guide the student in their personal work.

**Seminars:** Seminars are sessions with a small number of students with a double mission. On the one hand more specific knowledge of those exposed to the theoretical classes is used. On the other hand, they are a forum to encourage discussion and the exchange of ideas and knowledge. The mission of the seminars is to promote the capacity for analysis and synthesis, critical reasoning and the ability to solve problems. In addition, these sessions allow the teacher to track the student.

**Practices:** The objective of the practical classes is to complete, apply and reinforce the knowledge acquired in the theoretical classes and seminars. The practical sessions will consist of visits to different ecological farms that will allow the student to know the motivations, methods and problems of the sector.

**Case method:** The students will carry out a real or bibliographic practical case on any of the problems, limitations or possibilities of improvement of the ecological sector. The function of the practical case is to promote the capacity for analysis, reasoning and expertise in solving problems.

**Annotation:** Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

## Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
practical classes	6	0.24	1, 3, 2
seminars	6	0.24	3, 2, 4
theoretical classes	12	0.48	1, 3, 2
Type: Supervised			
practicas case	2	0.08	3, 2, 4
Type: Autonomous			
exam	5	0.2	1, 3, 2, 4, 6
redacción caso práctico	18	0.72	1, 3, 2, 4
study	25	1	3, 2

## Assessment

1. Exam of the theoretical contents of the subject (50%).
2. Field trip reports (10%)
3. Oral presentation and defense within 15 minutes of a practical case (self-learning) based on visits to farms. A week after the exhibition, a memory (40%) will be given to the members of the court.

## Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
exam	50%	1	0.04	1, 3, 2
field trip report	10%	0	0	1, 3, 2, 4, 6
practical cases	40%	0	0	3, 2, 4, 5

## Bibliography

- 1a Conferencia Internacional de Ganadería Ecológica en el Sur de Europa. SEAE y Diputación de Zamora
- Bidarte Iturri, A. y García Romero, C. 2007. Fichas prácticas de medicamentos naturales para la ganadería ecológica.
- Bidarte, A. et al. 2003. Tratamientos antiparasitarios en ganadería ecológica. Madrid : Editorial Agrícola Española.
- García Martínez, A. et al. 2008. Buenas prácticas en producción ecológica : producción de caprino de carne. Ministerio de Medio Ambiente y Medio Rural y Marino. Secretaría General Técnica.
- García Martínez, A. et al. 2008. Buenas prácticas en producción ecológica : ganado vacuno de leche. Ministerio de Medio Ambiente y Medio Rural y Marino. Secretaría General Técnica.
- García Martínez, A. et al. 2008. Buenas prácticas en producción ecológica : caracterización del sector porcino. Ministerio de Medio Ambiente y Medio Rural y Marino. Secretaría General Técnica.
- García Romero, C. 2008. Guía práctica de ganadería ecológica. Madrid: Agrícola Española.
- García Romero, C. y Cordero Morales, R. 2006. Ganadería ecológica y razas autóctonas. Madrid: Agrícola Española.
- García Romero, C. y Iturri A. 2005. Control biológico y terapias naturales en la cría bovina ecológica Madrid: Agrícola Española.
- García Trujillo, R. et al. 2009. Producción ecológica de gallinas ponedoras. Consejería de Agricultura y Pesca.
- La Ramaderia ecològica de boví a les Valls d'Àneu i viabilitat del producte ecològic [Recurs electrònic]: de la producció al consum: [projectefinal de carrera de Ciències Ambientals] / El Gripau Blau ; Mercedes Cerrato et al.; tutors: Martí Boada, Joan Rieradevall, Esther García. Bellaterra: Universitat Autònoma de Barcelona, 2009.
- Perea, JM *et al.* 2008. Buenas Prácticas en Producción Ecológica. Ganado ovino de leche. Ed. Ministerio de Medio Ambiente y Medio Rural y Marino
- Perea, JM *et al.* 2008. Buenas Prácticas en Producción Ecológica. Producción de ovino de carne. Ed. Ministerio de Medio Ambiente y Medio Rural y Marino
- Perea, JM *et al.* 2008. Buenas Prácticas en Producción Ecológica. Producción de bovino de cría. Ed. Ministerio de Medio Ambiente y Medio Rural y Marino
- Producció d'extensius i ramaderia ecològica: ponències dels cursos de l'Escola Agrària de Manresa. Manresa : Amics de l'Escola Agrària de Manresa, 2003
- Ramaderia ecològica: situació del sector. Laia Aguilà i Zueras, Xavier Alcaraz i Bravo, Oriol Gol i Karsunke. 1995. Treballs de l'assignatura Deontologia Veterinària. Facultat de Veterinària de la Universitat Autònoma de Barcelona.

- Vedella ecològica a Catalunya [Recurs electrònic]: reptes per una producció sostenible. Judit de la Cruz Roselló, Alba Infante Garcia, Anna Isern Dalmau. 2012. Treballs de l'assignatura Deontologia Veterinària. Facultat de Veterinària de la Universitat Autònoma de Barcelona.

- Younie D. y J.M. Wilkinson. 2004. Ganadería ecológica: principios, consejos prácticos, beneficios. Zaragoza: Acribia.

Llibres:

Binimelis, R. 2010. Circuits curts de comercialització per aliments ecològics. Ed. Servei de Formació Agrària. Generalitat de Catalunya

Descombes, Ch. 2010. Avicultura ecológica. Verloc Editorial.

Paajanen, T. 2011. The complete guide to organic livestock farming. Atlantic Publishing Group, Inc. Florida.

Revistes:

- Agro-cultura. La revista de la producció ecològica i l'agroecologia. Ed. L'Era. Espai de recursos agroecològics.

- Organic Farming. Ed. Soil Association.

- Soberanía Alimentaria. Biodiversidad y Culturas. Coeditada por: La Vía Campesina, Plataforma Rural, Fundación Agricultura Viva - COAG, y GRAIN.

Webs:

- [www.agroecologia.net](http://www.agroecologia.net)

- [www.associaciolera.org](http://www.associaciolera.org)

- [www.biocultura.org](http://www.biocultura.org)

- [www.ccpae.org](http://www.ccpae.org)

- [www.ruralcat.cat](http://www.ruralcat.cat)

## **Software**

Not necessary any special software.