

# UNIVERSITA' DEGLI STUDI DI MILANO PROGRAMME DESCRIPTION - ACADEMIC YEAR 2019/20 BACHELOR

# Animal Husbandry and Welfare (Classe L-38) Enrolled from 2014/2015 academic year

HEADING	
Degree classification - Denomination	L-38 Animal husbandry
and code:	
Degree title:	Dottore
Curricula currently available:	Domestic animals / HORSE FARMING / FOODS OF ANIMAL ORIGIN AND
	TERRITORY / EXTENSIVE FARMING WITH NATURALISTIC VALUE /
	ENVIRONMENTAL SUSTAINABILITY OF INTENSIVE LIVESTOCK
	FARMING
Length of course:	3 years
Total number of credits required to	180
complete programme:	
Years of course currently available:	1st, 2nd, 3rd
Access procedures:	Cap on student, student selection based on entrance test
Course code:	H13

#### PERSONS/ROLES

### **Head of Study Programme**

prof. Vittorio Maria Moretti

#### **Tutors - Faculty**

Prof. Agazzi Alessandro, Prof.ssa Alessia Giordano, Prof. Michele Polli, Prof.ssa Raffaella Rossi, dott. Francesco Tangorra.

### **Degree Course website**

www.unimi.it

Via dell'Università n. 6 Lodi martedì - giovedì dalle 13 alle 15 mercoledì dalle 9 alle 12 Previo appuntamento utilizzando il servizio infostudenti http://www.unimi.it

## CHARACTERISTICS OF DEGREE PROGRAMME

### Notes

#### CFU/CREDITS

In order to get their degree, students are required to certify their knowledge of the English language at the B1 level. This level can be certified in one of the following ways:

- $\cdot$  By submitting their language certificate, taken no more than 3
- years before its submittal and attesting a B1 o higher level (for the list of the language certificates which are accepted by the University of Milan, please refer to the website: http://www.unimi.it/studenti/100312.htm).
- Students can submit their language certificate during the immatriculation procedure or send it to the Language Centre of the University of Milan

(SLAM) via the Infostudente service.

· By sitting the placement test run by SLAM, during the first year exclusively, from September to December. Should they not pass the Placement Test, students will have to attend the English language course organized by SLAM. All students who do not have a valid language certificate must sit the Placement Test. Those students who do not sit the Placement test by December or do not pass the end of course test in one of the 6 attempts granted will have to get a language certificate outside the University of Milan within their degree.

## EXPERIENCE OF STUDY ABROAD AS PART OF THE TRAINING PROGRAM

The University of Milan supports the international mobility of its students, offering them the opportunity to spend periods of

study and training abroad, a unique opportunity to enrich their curriculum in an international context.

## How to participate in Erasmus mobility programs

To gain access to mobility programs for study purposes, lasting 3-12 months, the enrolled students of the University of Milan must attend a public selection that starts usually around the month of February each year through the presentation of specific competition announcements, which contain information on available destinations, respective duration of the mobility, requirements and deadlines for submitting the online application.

The selection, aimed at evaluating the proposed study abroad program of the candidate, knowledge of a foreign language, especially when this is a preferential requirement, and the motivations behind the request, is performed by specially constituted commissions.

Each year, before the expiry of the competition announcements, the University organises information sessions for the specific study course or groups of study courses, in order to illustrate to students the opportunities and participation rules.

To finance stays abroad under the Erasmus + program, the European Union assigns to the selected students a scholarship that - while not covering the full cost of living abroad - is a useful contribution for additional costs as travel costs or greater cost of living in the country of destination.

The monthly amount of the communitarian scholarship is established annually at national level; additional contributions may be provided to students with disabilities.

In order to enable students in economic disadvantaged conditions to participate in Erasmus+ program, the University of Milan assigns further additional contributions; amount of this contributions and criteria for assigning them are established from year to year.

The University of Milan promotes the linguistic preparation of students selected for mobility programs, organising every year intensive courses in the following languages: English, French, German and Spanish.

The University in order to facilitate the organisation of the stay abroad and to guide students in choosing their destination offers a specific support service.

More information in Italian are available on www.unimi.it > Studenti > Studiare all'estero > Erasmus+

For assistance please contact: Ufficio Accordi e relazioni internazionali via Festa del Perdono 7 (ground floor) Tel. 02 503 13501-12589-13495-13502 Fax 02 503 13503

E-mail: mobility.out@unimi.it

Desk opening hour: Monday-friday 9 - 12

1st COURSE YEAR Core/compulsory courses/activities common to all curricula			
	Ects	Sector	
	6	AGR/01	
	6	AGR/02	
	7	VET/01	
		BIO/10	
		CHIM/03, CHIM/06	
	2	L-LIN/12	
	10	MAT/09, MAT/01, MAT/02, MAT/03, MAT/04, MAT/05, MAT/06, MAT/07, MAT/08	
	6	VET/02	
Total compulsory credits	49		
		Ects	

2nd COURSE YEAR Core/compulsory courses/activities common to all curricula		
Learning activity	Ects	Sector
Animal nutrition and feeding	16	AGR/18
Breeding of small species	6	AGR/20
Farming systems and animal welfare	12	AGR/19
General Microbiology and Immunology	6	VET/05
Genetics of Animal domestics		AGR/17
Rural Buildings and facilities	12	(6) AGR/09, (6) AGR/10

Parassitogy and Hygiene    Total compulsory credits   Total compulsory cred	Toxicology and Legislation		9	(6) VET/07, (3) VET/08
Learning activity   Ects   Sector		Total compulsory credits	69	
Business economics and marketing Parassitogy and Hygiene  Pathology and Reproduction  Total compulsory credits  Belective courses common to all curricula  Aquaculture  BeekEEPING TECHNIQUES AND HONEY BEE BREEDING  BEEKEEPING TECHNIQUES AND HONEY BEE BREEDING  Beekeds and products of livestock species  Beeding and welfare of Pig Specie, in practice  PUNCTIONAL AND METABOLIC EVALUATION OF THE EQUINE ATHLETE  Baboratory methods for disease prevention in livestock  Milking machine use and maintenance  Barasites and breeding of Companion Animals  Berasites and breeding of Companion Animals  Bertyng Androwy And MORPHOLOGY  Bety Sold Of Padaptation And Reproduction with thumans  Bertyng Androwy and welfare of dogs and cats in their relationship with humans  Physiology, behaviour and welfare of dogs and cats in their relationship with humans  Bractical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Bractical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Bractical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Bractical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Bractical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Bractical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Bractical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Bractical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Bractical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Bractical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Bractical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Bractical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Bractical aspects to interact and integrate efficiently in	3rd COURSE YEAR Core/compulsory courses/activities comm	on to all curricula		
Business economics and marketing Parassitogy and Hygiene  Pathology and Reproduction  III (3) VET/06, (8) VET/05 (8) VET/05  III (6) VET/10, (5) VET/03  Total compulsory credits  28  Elective courses common to all curricula  Aquaculture  3 AGR/20  BEEKEEPING TECHNIQUES AND HONEY BEE BREEDING  3 AGR/17  Breeds and products of livestock species  3 AGR/17  Breeds and melfare of Pig Specie, in practice  4 AGR/18  FUNCTIONAL AND METABOLIC EVALUATION OF THE EQUINE ATHLETE  3 VET/08  Business prevention in livestock  3 AGR/19  Brasities and breeding of Companion Animals  3 AGR/19  Brasities and breeding of Companion Animals  3 AGR/19  Brasities and breeding of Companion Animals  3 VET/06  BPT'S ANATOMY AND MORPHOLOGY  Brytsiology of PADAPTATION AND REPRODUCTION OF EXOTIC ANIMALS HOUSED IN CONTROLLED  3 VET/02  ENVIRONMENT  Physiology, behaviour and welfare of dogs and cats in their relationship with humans  3 AGR/19  Brasities and welfare of dogs and cats in their relationship with humans  3 AGR/19  Brasities and the grait-tourism sustainable zootecnical farms  3 AGR/19  Brantand and the grait tourism sustainable zootecnical farms  3 AGR/19  Brantand and integrate efficiently in the dairy and beef cattle breeding  3 AGR/18  Small Ruminant Nutrition & Agnry Quality of Products  3 AGR/18  Small Ruminant Nutrition & Agnry Quality of Products  4 NA  Braining  4 NA  Fraining  4 NA  Fraining  6 NA	Learning activity		Ects	Sector
Pathology and Reproduction  Total compulsory credits  Belective courses common to all curricula  Aquaculture  Aquaculture  BEREKEPING TECHNIQUES AND HONEY BEE BREEDING  Breeds and products of livestock species  Breed Law  Feedling and welfare of Pig Specie, in practice  Feedling and welfare of Pig Specie, in practice  FUNCTIONAL AND METABOLIC EVALUATION OF THE EQUINE ATHLETE  Laboratory methods for disease prevention in livestock  Bilking machine use and maintenance  Organic livestock production systems  Parasites and breeding of Companion Animals  Pertyn SIOLOGY OF ADAPTATION AND REPRODUCTION OF EXOTIC ANIMALS HOUSED IN CONTROLLED  Physiology, behaviour and welfare of dogs and cats in their relationship with humans  Physiology, behaviour and welfare of dogs and cats in their relationship with humans  Physiology, behaviour and welfare of dogs and cats in their relationship with humans  Physiology, behaviour and welfare of dogs and cats in their relationship with humans  Physiology, behaviour and welfare of dogs and cats in their relationship with humans  Physiology, behaviour and welfare of dogs and cats in their relationship with humans  Physiology, behaviour and welfare of dogs and cats in their relationship with humans  AGR/19  Practical aspectrs of post-partrum Reproductive Pathologies in High Producting Dairy Cows  AGR/18  Final Ruminant Nutrition & Contaminants and Illicit Substances  Bractical expects to interact and integrate efficiently in the dairy and beef cattle breeding  AGR/18  The animal welfare professionals devoted to livestock production systems and animal experimentation  AGR/18  Final Examination  A NA  Training  A NA  Training  A NA  Training  Total compulsory credits  AGR/19  Total compulsory credits  AGR/19  Total compulsory credits  AGR/19  Total compulsory credits  AGR/19  A	Business economics and marketing		6	
Elective courses common to all curricula  Aquaculture BEEKEEPING TECHNIQUES AND HONEY BEE BREEDING Breeds and products of livestock species Feed Law Feed Law Feeding and welfare of Pig Specie, in practice FUNCTIONAL AND METABOLIC EVALUATION OF THE EQUINE ATHLETE Laboratory methods for disease prevention in livestock Milking machine use and maintenance Organic livestock production systems Parasites and breeding of Companion Animals Parasites and breeding of Companion Animals Parasites and breeding of Companion Animals Physiology of ADAPTATION AND REPRODUCTION OF EXOTIC ANIMALS HOUSED IN CONTROLLED Physiology, behaviour and welfare of dogs and cats in their relationship with humans Plants and structures for agri-tourism sustainable zootecnical farms Paractical aspects to interact and integrate efficiently in the dairy and beef cattle breeding Small Ruminant Nutrition & Amp. Quality of Products The animal welfare professionals devoted to livestock production systems and animal experimentation The animal welfare professionals devoted to livestock production systems and animal experimentation The animal welfare professionals devoted to livestock production systems and animal experimentation The animal welfare professionals devoted to livestock production systems and animal experimentation The animal welfare professionals devoted to livestock production systems and animal experimentation The animal welfare professionals devoted to livestock production systems and animal experimentation The animal welfare professionals devoted to livestock production systems and animal experimentation The animal welfare professionals devoted to livestock production systems and animal experimentation The animal welfare professionals devoted to livestock production systems and animal experimentation The animal welfare professionals devoted to livestock production systems and animal experimentation The animal welfare professionals devoted to livestock production systems and animal experimentation The animal velocity of the animal systems	Parassitogy and Hygiene		11	(3) VET/06, (8) VET/05
Elective courses common to all curricula  Aquaculture BEEKEEPING TECHNIQUES AND HONEY BEE BREEDING 3 AGR/17 Breeds and products of livestock species 3 AGR/17 Breeds and products of livestock species 4 AGR/17 Breed Law 5 VET/08 Feed Law 6 Seeding and welfare of Pig Specie, in practice 7 AGR/18 FUNCTIONAL AND METABOLIC EVALUATION OF THE EQUINE ATHLETE 8 VET/08 Laboratory methods for disease prevention in livestock 8 VET/08 Milking machine use and maintenance 9 AGR/09 Diganic livestock production systems 9 AGR/19 Parasites and breeding of Companion Animals 9 VET/06 PET'S ANATOMY AND MORPHOLOGY PET'S ANATOMY AND MORPHOLOGY PHANTSOLOGY OF ADAPTATION AND REPRODUCTION OF EXOTIC ANIMALS HOUSED IN CONTROLLED PANYIRONMENT 1 VET/02 Physiology, behaviour and welfare of dogs and cats in their relationship with humans 1 VET/02 Physiology, behaviour and welfare of dogs and cats in their relationship with humans 1 VET/02 Phants and structures for agri-tourism sustainable zootecnical farms 1 AGR/09 PRACTICAL ASPECTS OF POST-PARTUM REPRODUCTIVE PATHOLOGIES IN HIGH PRODUCING DAIRY COWS 1 VET/10 PRACTICAL ASPECTS OF POST-PARTUM REPRODUCTIVE PATHOLOGIES IN HIGH PRODUCING DAIRY COWS 2 VET/10 Practical aspects to interact and integrate efficiently in the dairy and beef cattle breeding 3 AGR/18 Small Ruminant Nutrition & AGR/18 Small Ruminant Nutrition & AGR/18 The animal welfare professionals devoted to livestock production systems and animal experimentation 3 VET/08 Dixicology: Detection of Contaminants and Illicit Substances 3 VET/06  **End of course requirements common to all curricula*	Pathology and Reproduction	_	11	
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Milking machine use and maintenance  Organic livestock production systems  3 AGR/19  Parasites and breeding of Companion Animals  PET'S ANATOMY AND MORPHOLOGY  PHYSIOLOGY OF ADAPITATION AND REPRODUCTION OF EXOTIC ANIMALS HOUSED IN CONTROLLED  ENVIRONMENT  Physiology, behaviour and welfare of dogs and cats in their relationship with humans  3 VET/02  PHASIOLOGY OF ADAPITATION AND REPRODUCTION OF EXOTIC ANIMALS HOUSED IN CONTROLLED  ENVIRONMENT  Physiology, behaviour and welfare of dogs and cats in their relationship with humans  3 VET/02  PHACTICAL ASPECTS OF POST-PARTUM REPRODUCTIVE PATHOLOGIES IN HIGH PRODUCING DAIRY COWS  Practical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Small Ruminant Nutrition & Amp; Quality of Products  The animal welfare professionals devoted to livestock production systems and animal experimentation  3 VET/08  Toxicology: Detection of Contaminants and Illicit Substances  WILDLIFE PARASITOLOGY  3 VET/06   End of course requirements common to all curricula  Final Examination  4 NA  Training  6 NA	FUNCTIONAL AND METABOLIC EVALUATION OF THE EQUINE ATHLETE		3	VET/08
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Parasites and breeding of Companion Animals  PET'S ANATOMY AND MORPHOLOGY  PHYSIOLOGY OF ADAPTATION AND REPRODUCTION OF EXOTIC ANIMALS HOUSED IN CONTROLLED  BIVIRONMENT  Physiology, behaviour and welfare of dogs and cats in their relationship with humans  Plants and structures for agri-tourism sustainable zootecnical farms  PRACTICAL ASPECTS OF POST-PARTUM REPRODUCTIVE PATHOLOGIES IN HIGH PRODUCING DAIRY COWS  Practical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Small Ruminant Nutrition & Samp; Quality of Products  The animal welfare professionals devoted to livestock production systems and animal experimentation  Toxicology: Detection of Contaminants and Illicit Substances  WILDLIFE PARASITOLOGY  3 VET/06   End of course requirements common to all curricula  Final Examination  4 NA  Training  6 NA	Milking machine use and maintenance		3	AGR/09
PET'S ANATOMY AND MORPHOLOGY PHYSIOLOGY OF ADAPTATION AND REPRODUCTION OF EXOTIC ANIMALS HOUSED IN CONTROLLED  8 VET/02 Physiology, behaviour and welfare of dogs and cats in their relationship with humans Plants and structures for agri-tourism sustainable zootecnical farms  9 RACTICAL ASPECTS OF POST-PARTUM REPRODUCTIVE PATHOLOGIES IN HIGH PRODUCING DAIRY COWS Practical aspects to interact and integrate efficiently in the dairy and beef cattle breeding Small Ruminant Nutrition & Amp; Quality of Products The animal welfare professionals devoted to livestock production systems and animal experimentation  10 VET/02 11 VET/02 12 VET/02 13 VET/02 14 NA 15 VET/05 15 VET/06 16 NA 16 NA 17 Taining 16 NA	Organic livestock production systems		3	AGR/19
PET'S ANATOMY AND MORPHOLOGY PHYSIOLOGY OF ADAPTATION AND REPRODUCTION OF EXOTIC ANIMALS HOUSED IN CONTROLLED  8 VET/02 Physiology, behaviour and welfare of dogs and cats in their relationship with humans Plants and structures for agri-tourism sustainable zootecnical farms  9 RACTICAL ASPECTS OF POST-PARTUM REPRODUCTIVE PATHOLOGIES IN HIGH PRODUCING DAIRY COWS Practical aspects to interact and integrate efficiently in the dairy and beef cattle breeding Small Ruminant Nutrition & Amp; Quality of Products The animal welfare professionals devoted to livestock production systems and animal experimentation  10 VET/02 11 VET/02 12 VET/02 13 VET/02 14 NA 15 VET/05 15 VET/06 16 NA 16 NA 17 Taining 16 NA			3	VET/06
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Plants and structures for agri-tourism sustainable zootecnical farms  PRACTICAL ASPECTS OF POST-PARTUM REPRODUCTIVE PATHOLOGIES IN HIGH PRODUCING DAIRY COWS  3 VET/10  Practical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  3 AGR/18  Small Ruminant Nutrition & Samp; Quality of Products  3 AGR/18  The animal welfare professionals devoted to livestock production systems and animal experimentation  5 VET/08  Toxicology: Detection of Contaminants and Illicit Substances  WILDLIFE PARASITOLOGY  3 VET/06   End of course requirements common to all curricula  Final Examination  4 NA  Training  6 NA	PHYSIOLOGY OF ADAPTATION AND REPRODUCTION OF EXOTIC ANIMALS HOUSED ENVIRONMENT	IN CONTROLLED	3	VET/02
PRACTICAL ASPECTS OF POST-PARTUM REPRODUCTIVE PATHOLOGIES IN HIGH PRODUCING DAIRY COWS Practical aspects to interact and integrate efficiently in the dairy and beef cattle breeding 3 AGR/18 Small Ruminant Nutrition & Daily of Products 3 AGR/18 The animal welfare professionals devoted to livestock production systems and animal experimentation 3 VET/08 Toxicology: Detection of Contaminants and Illicit Substances 3 VET/07 WILDLIFE PARASITOLOGY 3 VET/06  End of course requirements common to all curricula Final Examination 4 NA Training 6 NA	Physiology, behaviour and welfare of dogs and cats in their relationship with humans		3	VET/02
Practical aspects to interact and integrate efficiently in the dairy and beef cattle breeding  Small Ruminant Nutrition & Description of Products  The animal welfare professionals devoted to livestock production systems and animal experimentation  Toxicology: Detection of Contaminants and Illicit Substances  WILDLIFE PARASITOLOGY  Toxicology: Detection of Contaminants and Illicit Substances  WILDLIFE PARASITOLOGY  Toxicology: Detection of Contaminants and Illicit Substances  WILDLIFE PARASITOLOGY  Toxicology: Detection of Contaminants and Illicit Substances  WILDLIFE PARASITOLOGY  Toxicology: Detection of Contaminants and Illicit Substances  WILDLIFE PARASITOLOGY  Toxicology: Detection of Contaminants and Illicit Substances  WET/06	Plants and structures for agri-tourism sustainable zootecnical farms			
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The animal welfare professionals devoted to livestock production systems and animal experimentation  3 VET/08 Toxicology: Detection of Contaminants and Illicit Substances  WILDLIFE PARASITOLOGY  3 VET/06  End of course requirements common to all curricula  Final Examination  4 NA Training  6 NA	Practical aspects to interact and integrate efficiently in the dairy and beef cattle breeding		3	AGR/18
Toxicology: Detection of Contaminants and Illicit Substances  WILDLIFE PARASITOLOGY   Solution of Course requirements common to all curricula  Final Examination  Training  4 NA  Training  6 NA	Small Ruminant Nutrition & Duality of Products		3	AGR/18
End of course requirements common to all curricula  Final Examination Training  3 VET/06  4 NA Training				
End of course requirements common to all curricula Final Examination Training  4 NA Training 6 NA	Toxicology: Detection of Contaminants and Illicit Substances			
Final Examination Training  4 NA NA NA	WILDLIFE PARASITOLOGY		3	VET/06
Final Examination Training  4 NA NA NA				
Training 6 NA	-			
Total compulsory credits 10	Training		6	NA
		Total compulsory credits	10	

# ACTIVE CURRICULA LIST

Domestic animals Course years currently available: 1°, 2°, 3°
HORSE FARMING Course years currently available: 1°, 2°, 3°
FOODS OF ANIMAL ORIGIN AND TERRITORY Course years currently available: 1°, 2°, 3°
EXTENSIVE FARMING WITH NATURALISTIC VALUE Course years currently available: 1°, 2°, 3°
ENVIRONMENTAL SUSTAINABILITY OF INTENSIVE LIVESTOCK FARMING Course years currently available: 1°, 2°, 3°

# CURRICULUM: [H13-B] Domestic animals

3rd COURSE YEAR Core/compulsory courses/activities Curriculum-specific features Domestic animals			nestic animals
Learning activity		Ects	Sector
Genetics and Ethology		7	(3) AGR/19, (4) AGR/17
Nutrition and feeding of dog and cat		5	AGR/18
	Total compulsory credits	12	

## CURRICULUM: [H13-C] HORSE FARMING

3rd COURSE YEAR Core/compulsory courses/activities Curriculum-specific features HORSE FARMING			
Learning activity			Sector
horse management		6	AGR/19
Nutrition, feeding and Dietology		6	AGR/18
	Total compulsory credits	12	

# CURRICULUM: [H13-D] FOODS OF ANIMAL ORIGIN AND TERRITORY

3rd COURSE YEAR Core/compulsory courses/activities Curriculum-specific feature ANIMAL ORIGIN AND TERRITORY	s FO	ODS OF
Learning activity	Ects	Sector

Microbiology and Hygiene of animal-origin food		6	VET/04
Processing industries of food of animal origin		6	VET/04
	Total compulsory credits	12	

# CURRICULUM: [H13-E] EXTENSIVE FARMING WITH NATURALISTIC VALUE

3rd COURSE YEAR Core/compulsory courses/activities Curriculum-specific features EXTENSIVE FARMING WITH NATURALISTIC VALUE			
Learning activity		Ects	Sector
Extensive farming and eco-parasitology		6	(3) AGR/19, (3) VET/06
Feeding and genetics		6	(3) AGR/18, (3) AGR/17
	Total compulsory credits	12	

# CURRICULUM: [H13-F] ENVIRONMENTAL SUSTAINABILITY OF INTENSIVE LIVESTOCK FARMING

3rd COURSE YEAR Core/compulsory courses/activities Curriculum-specific features ENVIRONMENTAL SUSTAINABILITY OF INTENSIVE LIVESTOCK FARMING			
Learning activity		Ects	Sector
Renewable Energies and Energy Savings for agro-zootechnical systems		6	AGR/09
sustainable management of livestock waste		6	AGR/10
	Total compulsory credits	12	