



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA

## SCHOOL OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE

Information for International Students  
Academic year 2016/2017

### MASTER DEGREES IN ENGLISH

- Biotechnologies for Food Science
- Forest Science
- Italian Food and Wine
- Sustainable Agriculture

### COURSE UNITS IN ENGLISH

- Environmental Sciences, Animal Sciences, Veterinary Medicine and other

# SCHOOL OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE

- 4 Departments
- 1 Veterinary Hospital
- 1 Experimental Farm

**3500 STUDENTS**

- 8 1st Cycle Degrees
- 9 2nd Cycle Degrees
- 1 Single Cycle Master Degree
- 4 PHD Schools

**Campus Agripolis**

## **Key-data for INCOMING students**

**Educational offer:** <http://en.didattica.unipd.it/offerta/2016/AV>

## **Academic Calendar 2016/ 2017**

### **1st semester:**

Lecture period: October - January

Examination period: January - February

### **2nd semester:**

Lecture period: March - June

Examination period: June - July

## **Application deadline for EXCHANGE Students**

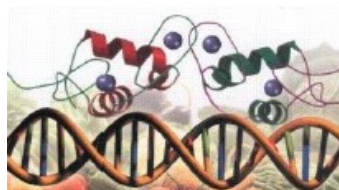
**1st semester:** 15 June 2016

**2nd semester:** 15 November 2016

<http://www.unipd.it/en/node/817>

# Biotechnologies for Food Science

The Master degree of Biotechnologies for Food Science is a new programme starting in September 2016. It explores how to produce healthier and safer food and focused on the application of advanced biotechnologies and combines the requests of consumers and producers in the agro-food sector as well as research applied to production and food-safety.



The course has a strong component on cutting-edge methods, such as genomics, bioinformatics, proteomics, metabolomics, nanotechnologies, all in the context of animal and crop production as well as food quality and safety. Theoretical lessons are mixed with practical training, offering hands-on experience in advanced DNA, RNA, and protein analysis together with substantial lab sessions in bioinformatics.

<http://www.agrariamedicinaveterinaria.unipd.it/en/biotechnologies-food-science>

Subjects	Semester	ECTS
APPLIED GENOMICS FOR ANIMAL AND CROP IMPROVEMENT	1°	8
APPLIED BIOINFORMATICS	1°	10
FOOD MICROBIOLOGY AND FOOD MICROBIAL BIOTECHNOLOGY	1°	8
MOLECULAR BASIS OF DISEASE, IMMUNOLOGY, AND TRANSMISSIBLE DISEASES	1°	6
LABORATORY OF ADVANCED DNA, RNA AND PROTEIN ANALYSIS	2°	9
BIOTECHNOLOGY FOR CROP PRODUCTION	2°	8
EPIDEMIOLOGY AND RISK ANALYSIS	2°	6
TRACEABILITY TOOLS FOR SPECIES AUTHENTICATION*		
ADVANCED TECHNOLOGIES FOR THE AGRIFOOD SECTOR* (NANOTECHNOLOGIES, PROTEOMICS, METABOLOMICS)	*From 2017/2018	
BIOTECHNOLOGY FOR PLANT PROTECTION*		
FOOD TOXICOLOGY AND FOOD REGULATION*		



# Forest Science

The Master degree in Forest Science encompasses a wide array of subjects and is organized in 3 curricula of studies: Forest Science, Land and forest conservation, Responsible production of good and services. The programme is based on a multidisciplinary approach mixing theory and field practice. The learning outcomes are oriented to educate forest professionals able to handle complex problems dealing with the conservation, sustainable management and use of Mediterranean forest resources.



<http://www.agrariamedicinaveterinaria.unipd.it/en/forest-science-1>

Subject	1st Semester	ECTS
BIODIVERSITY AND ECOSYSTEM SERVICES IN FOREST	6	
CLIMATE CHANGE AND TROPICAL FORESTRY: MONITORING AND POLICIES	6	
ECONOMICS OF FOREST RESOURCES	6	
FOREST ECOLOGY AND MANAGEMENT IN MEDITERRANEAN CLIMATES	6	
FOREST HYDROLOGY	6	
FOREST POLICIES AND GOVERNANCE: MANAGING CONFLICTS	6	
FOREST OPERATIONS	6	
FOREST POLICY	6	
INSECT ECOLOGY AND MANAGEMENT	6	
INTRODUCTION TO GIS	2	
MANAGEMENT AND TREATMENT IN MOUNTAIN AND MEDITERRANEAN FORESTS	6	
MANAGEMENT OF MOUNTAIN FORESTS AND LOGGING SYSTEMS	10	
MOUNTAIN FLUVIAL MORPHOLOGY AND STREAM	8	
NATURAL RESOURCE AND ENVIRONMENTAL ECONOMIC	6	
RESEARCH AND PROJECT DEVELOPMENT METHODOLOGY	6	
POLICY AND MARKET DEVELOPMENT FOR NON WOOD FOREST PRODUCTS	6	
RESEARCH PLANNING	6	
SILVICULTURAL SYSTEMS	6	
SOCIAL RESPONSABILITY BY PUBLIC AND PRIVATE ORGANIZATIONS	6	
SOCIETAL MARKETING: FOREST CERTIFICATION AND OTHER TOOLS	6	

Subject	2nd Semester	EC-
GEOLOGY OF MOUNTAIN AREAS	6	
FOREST ECOSYSTEMS AND GLOBAL CHANGE	6	
FOREST LAND PLANNING	6	
FOREST PATHOLOGY AND WOOD ALTERATIONS	6	
FOREST RESOURCES EXPLOITATION	6	
INTEGRATED WATERSHED MANAGEMENT	6	
NATURAL DISTURBANCE ECOLOGY AND MANAGEMENT	6	
WILDFIRE AND NATURAL DISTURBANCE ECOLOGY AND MANAGEMENT	6	
WILDLIFE CONSERVATION AND MANAGEMENT	6	



The Forest Science programme participates to three Erasmus Mundus Consortia for Master degrees, namely **SUTROFOR**, **SUFONAMA** and **MEDFOR**, respectively on management of tropical, temperate and Mediterranean forests.

# Italian Food and Wine

The "Italian Food and Wine" Master degree focuses on the understanding, management, promotion and protection of high-value food products including wine. The Italian food production system is analysed as a model for defining and characterising the individual elements that contribute to the unique value of food products, inextricably linked to place of origin through historical, social and cultural terroir. Thanks to the multi-disciplinary approach students develop capabilities and skills necessary to manage the complex system of high-value foods and wines, whose quality is profoundly linked to the traditions and places of origin.

Students will understand the characteristics that distinguish these foods from others in the marketplace and that can be exploited in product valorisation and consumer information strategies. Lectures are about the link of high quality food and wine with the terroir, their sensory and nutritional properties, and their protection and valorisation in the market.



<http://www.agrariamedicinaveterinaria.unipd.it/en/italian-food-and-wine-%E2%80%93-itfw-master-second-cycle-degree>

Subject	Semester	ECTS
ANIMAL BIODIVERSITY AND FOOD	1°	6
CONSUMER BEHAVIOUR	1°	6
FOOD AND WINE - BASED TERRITORIAL VALORIZATION AND RURAL DEVELOPMENT	1°	8
FOOD AND WINE: PERSPECTIVES FROM ABROAD	1°	6
FOOD, WINE AND SOCIETY	1°	8
PLANT BIODIVERSITY AND FOOD	1°	6
QUALITY, PROCESSING AND SENSORIAL ANALYSIS OF ITALIAN FOOD	1°	8
QUALITY, PROCESSING AND SENSORIAL ANALYSIS OF ITALIAN WINE	1°	8
VALUE ADDING QUALITY SCHEMES AND CONSUMER DEMAND	1°	8
FOOD AND WINE HISTORY AND ANTHROPOLOGY	2°	6
FOOD MICROBIOLOGY AND QUALITY	2°	6
FOOD SAFETY AND HYGIENE	2°	6
FOOD TRACEABILITY FOR FOOD QUALITY	2°	6
QUALITY-ORIENTED FOOD AND WINE MANAGEMENT AND GOVERNANCE	2°	6



# Sustainable Agriculture

The Master degree in Sustainable Agriculture aims to provide advanced knowledge in the field of agricultural systems as well as skills to develop and manage sustainable production systems. The context of the topics is international, main area of investigation are warm-temperate environments at a global level. The course in Sustainable Agriculture, includes two main areas of study:



- 1) Production: training in the areas of agronomy, crop and animal productions, soil science, plant breeding, and integrated management of pests and diseases, all aimed at the sustainability of the production process and its social implications;
- 2) Technology: training in the areas of management and protection of air-soil-water, use of biomass of agricultural plants and animals, land management, and management of the production process at different geographic scales considering both innovative technologies and socio-economic aspects.

<http://www.agrariamedicinaveterinaria.unipd.it/en/sustainable-agriculture>

Subject	1st Semester	ECTS	Subject	2nd Semester	ECTS
AGRICULTURAL MANAGEMENT OF BIO-GEOCHEMICAL CYCLES		8	ADVANCED STATISTICS		6
GIS FOR AGRO-ENVIRONMENTAL STUDIES		4	AGRIFOOD ECONOMICS AND POLICY		8
INTEGRATED MANAGEMENT OF ARTHROPOD PESTS		6	PLANT BREEDING		8
PRECISION FARMING		8	RESEARCH PLANNING		4
SUSTAINABLE AGRICULTURE		6	SOIL MICROBIOLOGY		6
CROP PHYSIOLOGY *			SUSTAINABLE DISEASE MANAGEMENT		6
SUSTAINABLE VITICULTURE AND WOODY CROP PRODUCTION *					
SUSTAINABLE LIVESTOCK SYSTEMS*					
WATER RESOURCES MANAGEMENT *					
BIOTECHNOLOGY FOR PLANT PROTECTION*					
SUSTAINABLE USE OF PESTICIDES *					
IPM OF PATHOGENS OF FRUIT CROPS IN TEMPERATE CLIMATE*					
IPM OF PESTS OF FRUIT CROPS IN TEMPERATE CLIMATE*					
MANAGEMENT OF NATIVE AND NON-NATIVE PESTS IN THE LANDSCAPE*					

\*From  
2017/2018



A dual degree in  
"Sustainable Agriculture" (Italy)  
and "**Crop and Soil Science**" (USA) has been established in collaboration with the  
University of Georgia.  
The program participates on the  
Erasmus Mundus consortium  
**Plant Health.**

# Course Units held in English

Subject 1st Semester	Degree*	ECTS	Subject 2nd Semester	Degree*	ECTS
APPLIED GEOPHYSICS	M	8	ANTHROPOLOGY OF FOOD	B	6
BIOMASS AND BIOENERGY	M	6	BUSINESS PLAN	B	6
CLINICS IN REPRODUCTION	M	5	ENVIRONMENTAL MINERALOGY	M	8
GLOBAL HISTORY OF FOOD	B	6	HUMAN RESOURCES MANAGEMENT	B	8
LIVESTOCK BIODIVERSITY AND ANIMAL FOOD SAFETY	M	8	VEGETATION-ATMOSPHERE INTE- RACTIONS	M	8
MARKETING	B	6	WATER RESOURCES MANAGEMENT	M	6
MEAT SCIENCE AND TECHNOLOGY	M	8			
PROJECT PLANNING AND EVALUA- TION	M	6			

**\*B - Bachelor degree/ M - Master degree** Bachelor students are allowed to attend master courses if they meet the prerequisites and have an English proficiency of the CEF B2 level. For further information please check the course program on the webpage: [en.didattica.unipd.it/offerta/2016/AV/](http://en.didattica.unipd.it/offerta/2016/AV/)

## Further Information

### Welcome guide:

[www.unipd.it/international-area/  
welcome\\_to\\_padova](http://www.unipd.it/international-area/welcome_to_padova)

**Accommodation:** [www.sassa.org](http://www.sassa.org)

**Italian language courses:** [www.cla.unipd.it](http://www.cla.unipd.it)

### Master theses

are available for each field of study. For further information please contact the local Erasmus office:

**[erasmus.agripolis@unipd.it](mailto:erasmus.agripolis@unipd.it)**



# AGRIPOLIS CAMPUS LEGNARO

## How to arrive

### By car:

From Milan or from Venice by the highway n. 4

From Bologna by the highway n. 13

### By train:

To the railway station of Padova (10 km to Agripolis)

### By bus:

From Padova railway station and the Busitalia station to Agripolis

### By plain:

From Venice airport "Marco Polo" 40 km

From Treviso airport 60 km



## SCHOOL OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE

Scuola Agraria e Medicina Veterinaria  
Viale dell'Università 16  
I - 35020 Legnaro (PD)

<http://www.agrariamedicinaveterinaria.unipd.it/>

### Contact:

Erasmus office School of Agricultural Sciences and Veterinary Medicine

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