



Università Politecnica delle Marche - Ancona (Italy)

Department of *Agricultural, Food and Environmental Sciences (D3A)*



www.d3a.univpm.it

Agricultural, Food and Environmental Sciences



Dipartimento di Scienze Agrarie, Alimentari ed Ambientali

The 3A Department



Agriculture



Alimenti (Food)

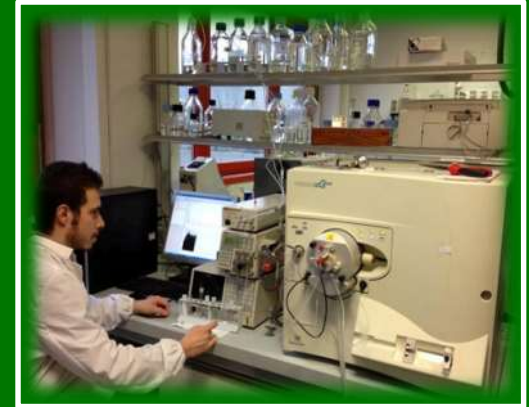


Ambiente (Environment)

D3A activities



high education



scientific research



social networking (3° mission)

studying at D3A means to learn how to

- *Contribute to the preservation of the environment and of the natural resources*
- *Realize and spread the sustainable use of rural land*
- *Develop farming techniques with low environmental impact*
- *Improve the quality and safety of foods with innovative & sustainable technologies*



High education facilities in the campus



IT Lab



Microscopy Lab



Chemistry lab



Sensory analysis lab



Class rooms



Wireless area

High education facilities outside the campus

Experimental and Educational Farm “Pasquale Rosati”

Located in Agugliano (17 km from main campus)

Surface area: 140 hectares



High education



Farming



Experimental activities

High education facilities outside the campus

Botanical Garden 'Selva di Gallignano'

located in Gallignano (11 km from main campus)

Surface area: 14 hectares

Research center for the conservation of floristic biodiversity



ex-situ
conservation



Germplasm
bank

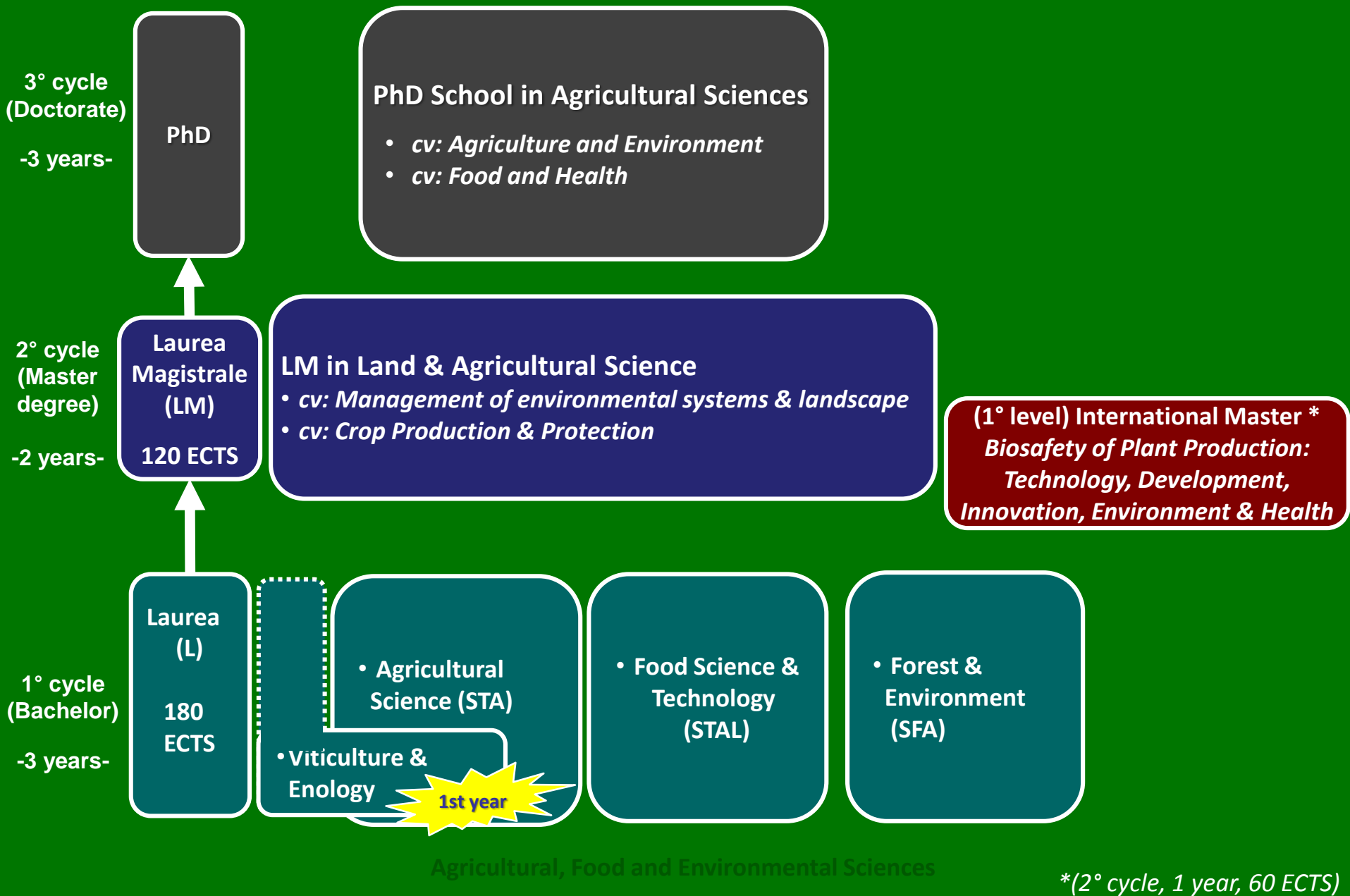


Education
Center



Degree programmes at D3A (a.a. 2013-2014)

Classes are scheduled during the first (september to january) and second semester (february to june)



Structure of the degree programmes

Bachelor's degree (L) 180 ECTS

- Core subjects
- Specific subjects
- Related subjects
- English
- Individual choice subjects
- Training
- Final dissertation

- International mobility in about 40 universities
- Erasmus Intensive Program (IP)
- Job placement (training) in Europe and overseas

Master's Degree (LM) 120 ECTS

- Specific subjects
- Related subjects
- Individual choice subjects
- Final dissertation

ERASMUS program



Agricultural Science (STA)

Core subjects

- Plant biology, Chemistry, Physics, Mathematic

Specific subjects

- General agronomy and crop science, tree physiology, orchard management, fruitculture
- Animal biology and basic animal science
- Agricultural chemitry and biochemistry
- Economic and rural appraisal
- Plant pathology, genetics
- Agricultural mechanization

Related subjects

- Rural buildings and geomatics
- Microbiology and agrarian industries



Forest and Environment (SFA)

Core subjects

- Plant biology, Botany, Chemistry, Physics, Mathematics

Specific subjects

- Landscape analysis
- Forest chemistry, Genetics
- Entomology and Forest Zoology
- Management of grasslands
- Animal husbandry
- Economics, Evaluation and management of forest resources
- Forestry machines and technologies

Related subjects

- Plant ecology
- Forest Microbiology and Pathology
- Hydraulic forestry management



Food Science and Technology (STAL)

Core subjects

- Plant biology, Biochemistry, Chemistry, Physics, Mathematics

Specific subjects

- Food Microbiology, Hygiene, Food quality control
- Food Chemistry, Food technologies
- Preserves and additives
- Economics and marketing
- Genetics, Physiology and Animal Nutrition

Related subjects

- Agronomy and crop science
- Machines and plants
- Integrated pest management of food



Educational objectives



STA

interdisciplinary knowledges for an integrated approach of the agricultural sector and management of the rural areas



SFA

interdisciplinary knowledges for the sustainable management and conservation of forest and environmental resources



STAL

sustainable management and safety control of food processing, conservation and distribution

Master degree *Land and Agricultural Science (SAT)*

Curriculum

Management of Environmental Systems and Landscape (GSAT)

Curriculum

Crop Production and Protection (PPCV)

1° year (common subjects)

Land Agronomy, Pesticides Chemistry & Biochemistry, Agricultural Economics & policy, Environmental economics & valuation, Biodiversity and landscape, Plant breeding, Nursery production & biotechnology in fruitculture

2° year (GSAT)

- Soil conservation and management (6 ECTS)*
- Rural landscape planning
- Sustainable management of forest resources (9 ECTS)

2° year (PPCV)

- Biological control and integrated pest management
- Integrated plant disease management (6 ECTS)*
- Oliveculture (6 ECTS)*

Free choice for the students:

- Biomass energy, Laboratory of agricultural chemistry, Environmental monitoring of agroecosystems, Horticulture, Livestock farming systems and animal productions, Technology of alcoholic beverages (6 ECTS)*

*offered in english

1° Level International Master

Biosafety of Plant Production:

Technology, Development, Innovation, Environment and Health



dedicated to professionals in developing countries in order to strengthen the systems for the safe use of biotechnology and GMO

PhD School in Agricultural Sciences

Curriculum
**Agriculture and
Environment**

Curriculum
Food and Health



**3 years of high education to access
the world of scientific research**

Job opportunities

Public Institutions

Ministeries
State Forestry Corps
Regional and Local Departments
Mountain Communities
Public Health Service
National and Regional Parks

Italian Habilitation for the profession of
***dottore agronomo and
dottore forestale***

Private enterprises

Private companies in the agricultural, forestry, food and wine sectors
Producers' associations
National and international organizations (FAO, World Bank, UN, EU)
Certification bodies and quality control (EMAS, PEFC, FSC, ISO etc.).
Large-scale distribution (GDO)
Professional Consultant
Service companies and laboratories for the management and protection of the environment

The 3A Department



Agriculture



Alimenti (Food products)



Ambiente (Environment)

- High education
- Scientific Research
- Innovation

Address and contacts

Marche Polytechnic University

**Department of Agricultural, Food
and Environmental Sciences (D3A)**

Head Prof. Bruno Mezzetti

**Via Breccie Bianche, 10
60131 Ancona (Italy)**

Phone +39 071 2204935

didattica.agraria@univpm.it

www.d3a.univpm.it



UNIVPM – Monte Dago Campus