Bachelor’s Degree in Agricultural and Biological Engineering

School of Agricultural Engineering and Environment
Building 3P
Campus of Vera (València)

4 courses
240 credits
Spanish and valencian
Credit 20.27 € (2018/2019)
125 places
Cut-off mark

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+34 963 877 130
www.upv.es/titulaciones/GIAMR/

Introduction to the degree

Graduates in Rural and Agrifood Engineering will be able to manage food production to obtain quality products. They will also have scientific and technological knowledge which they can apply to agricultural and livestock production, to the organization and management of agricultural enterprises, to rural planning and development, and to building agricultural infrastructures. Due attention will be paid to respect for the environment, economic profitability and social acceptability.

Internships

The ETSIAMN (Higher Technical School of Agricultural and Environmental Engineering) has extensive experience in this field and has realized that internships are fundamental when looking for your first job. For this reason, the ETSIAMN provides students with internship periods in companies and institutions. About 650 students are sent every year to 300 companies in the different sectors related to this degree.

International mobility

Mobility between countries is promoted by the ETSIAMN. Every year, about 200 students travel abroad, and about 300 come to the UPV from foreign countries. The ETSIAMN has signed agreements with some of the most prestigious universities in Europe and USA.

Continuation of studies

With this degree, you will be able to access to:

- MD in Agronomic Engineering
  - MD in Hydraulic Engineering and Environment
  - European MD in Plant Health in Sustainable Cropping Systems (Erasmus Mundus)
  - MD in Plant Genetics and Breeding
  - MD in Health and Vegetable Production
  - MD in Agrifood and Environmental Economy
  - MD in Animal Husbandry
- others MD + levelling subjects

Professional opportunities

This degree qualifies its graduates to work as agricultural engineers. Food production, processing, conservation and merchandising are activities that are beyond fads, being necessary for the survival of human beings.

Graduates in Agrifood Engineering have many different options open to them when working as professionals: you will be able to work in technical engineering offices, agricultural or engineering companies, as a technical manager in horticulture, or as a manager of agricultural and livestock farms. Graduates can also work as freelancers or for government agencies, in public and private research centres, as well as teaching in high schools, job training centres or universities.

Study at the UPV and be part of Spain’s best technological university according to the Shanghai ranking

Enjoy our huge campuses with spaces designed for you such as the Student Recreation House.
You can do up to 70 sports in our facilities.
You will find many services at your disposal: language classes, discounts in public transport, counselling, employability support...
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Credits for obtaining the degree

<table>
<thead>
<tr>
<th>Basic courses</th>
<th>Compulsory</th>
<th>Optional</th>
<th>Internship</th>
<th>T.F.G.</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>60.00</td>
<td>108.00</td>
<td>60.00</td>
<td>0.00</td>
<td>12.00</td>
<td>240.00</td>
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The subjects that you will be able to take

### Basic courses
- Biology
- Business Administration
- Foundations of Mathematics I
- Foundations of Mathematics II
- Foundations of Physics in Engineering II
- Foundations of Physics in Engineering I
- General Chemistry
- Geology, Soil Science and Climatology
- Graphic Representation in Engineering

### Compulsory courses
- Agricultural Machinery and Mechanization
- Animal Production Technology
- Biotechnological Foundations and Applications
- Chemistry - Extension Course
- Crop Protection
- Ecology and Environmental Impact
- Electrical Technology and Electrification
- Fundamentals of Engineering in the Agrifood Industry
- General Agronomy
- Herbaceous Crops
- Hydraulics
- Irrigation Engineering
- Principles of Animal Production
- Soil Mechanics, Foundations, and Rural Roads and Paths

### Statistical Methods
- Strength of Materials and Agro-Industrial Structures
- Surveying, Mapping and Geographic Information Systems
- Systematic Botany
- Valuation and Marketing
- Woody Crops

### Elective courses
- Agricultural Analysis
- Agroindustrial Construction
- Animal Breeding and Genetics
- Animal Nutrition
- Biological Control of Insects, Diseases and Weeds
- Citriculture
- Complementodel Trabajo Finalde Grado
- Economíadelos Recursos Naturalesy Medio Ambiente
- Engineering and Livestock Management
- English B2 for Agri-Food Engineering and the Rural Environment
- Feed and Fodder Production
- Fish Production
- Food Analysis
- Food Industrial Processes
- Fruit Tree Crops
- Gardening and Landscaping
- Geobotany and Natural Resources
- German - A1 - A2 - B1 - B2
- Horticulture: Vegetable Crops
- Instalaciones Solares Térmicas y Fotovoltaicas
- Irrigation and Fertilization Needs and Programming
- Nutrition and Industrial Dietetics
- Physical Properties of Food
- Plant Breeding
- Process Modelling and Control
- Production of Monogastrics
- Quality Management Systems in the Agri-Food Industry
- Quality of Animal Products
- Recovery and Restoration of Degraded Soils
- Refrigeration Engineering
- Renewable Energies
- Scientific and Technical French - B1
- Structure and Animal Function
- Sustainable Agriculture
- Transport Phenomena in Food Industry I - II
- Treatment and Purification of Agrifood Wastewater
- Treatment, Management and Agricultural Uses of Organic Waste
- Valencia Tècnic - C1 - C2
- Vegetal Propagation
- Verification of Phytosanitary Application Equipment
- Viticulture
- Welfare, Hygiene and Health in Animal Production
- Wines and Alcoholic Beverages

Internationally accredited bachelor’s degree (EUR-ACE – ABET)