Bachelor's Double Degree in Biotechnology + Agricultural Engineering

Science
Engineering and Architecture, AF

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

- 5 courses
- 352,5 credits
- Spanish and valencian
- Credit 20,27 € (2020/2021)
- 15 places
- Cut-off marks
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www.upv.es/titulaciones/GDBIOAGRO/

Introduction to the degree

The double degree in Biotechnology + Agricultural and Biological Engineering aims to train professionals with a solid academic background that integrates Agriculture and Biological Engineering with plant Biotechnology, responding to a growing labour demand for these types of professionals in the agricultural sector. With this double degree, students acquire the knowledge and professional skills of the two Bachelor Degrees in five years, instead of the eight years that the two degrees would require separately.

The Schools of Agricultural Engineering and Environment (ETSIAMN) has been providing degrees related to Agricultural Engineering for 60 years, and the degree in Biotechnology taught by this school is ranked number 1 nationwide, thus guaranteeing the quality and success of this double degree.

International mobility

The School has agreements in place with some of the best European and American universities. More than 200 students travel abroad and around 300 come from other countries, which shows the high degree of internationalization of this double degree.

Internships

The School facilitates internships in companies and institutions, in fact, around 650 students join 300 companies from different related sectors every year.

Continuation of studies

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

- MD in Agricultural Engineering
- European Master Degree in Plant Health in Sustainable Cropping Systems
- MD in Agrifood and Environmental Economy
- MD in Health and Vegetable Production
- MD in Hydraulic Engineering and the Environment
- MD in Plant Genetics and Breeding
- MD in Plant Molecular and Cellular Biotechnology

Professional opportunities

Graduates in this double degree will have multiple professional opportunities, since it combines a wide range of professional options related to agricultural technical engineering, with the growing social demand and the great potential biotechnology has.

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>Elective</th>
<th>Internship</th>
<th>TFG</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>66.00</td>
<td>232.50</td>
<td>24.00</td>
<td>6.00</td>
<td>24.00</td>
<td>352.50</td>
</tr>
</tbody>
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The subjects that you will be able to take

### Basic courses
- Animal and Human Physiology
- Biology
- Foundations of Mathematics I - II
- Foundations of Physics in Engineering I - II
- General Chemistry
- General Genetics
- General Microbiology
- Geology, Soil Science and Climatology
- Graphic Representation in Engineering

### Compulsory courses
- Agricultural Machinery and Mechanization
- Animal Production Technology
- Bioinformatics
- Bioprocess Engineering I - II
- Bioproducts and Bioprocesses
- Bioreactors
- Biotechnology Business Economics
- Bulk Analysis of Biological Data
- Chemistry - Extension Course
- Crop Protection
- Ecology and Environmental Impact
- Electrical Technology and Electrification
- General Agronomy
- General and Applied Enzymology
- Genetic Engineering
- Genomics
- Herbaceous Crops
- Hydraulics
- Immunology
- Industrial Microbiology
- Instrumental Techniques
- Irrigation Engineering
- Legal and Sociological Aspects of Biotechnology
- Metabolic Biochemistry
- Microbial and Environmental Biotechnology
- Molecular Biology
- Molecular Genetics
- Molecular Markers
- Plant Physiology
- Protein Structure and Engineering
- Proteomics and Metabolomics
- 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
- Virology
- Woody Crops

### Elective courses
- Agrifood Biotechnology
- English B2 for Agrifood Engineering and the Rural Environment
- Experimentation in Biotechnology
- In Vitro Culture and Plant Genetic Transformation
- Metabolic Engineering and Synthetic Biology
- Plant Biochemistry and Molecular Biology
- Plant Breeding