Bachelor's Degree in Biotechnology

Introduction to the degree

The degree in Biotechnology aims to train students to be able to research, innovate, develop and improve processes, tools and biotechnological materials within the areas of health, food, agriculture, livestock and aquaculture, forestry, energy, the environment and industry.

International mobility

It is very common for Biotechnology students and professionals to work in an international context. Many prestigious universities in Europe and other countries offer studies in Biotechnology. Exchange programs such as Erasmus allow students to spend one semester or one year in another university. The ETSIAMN has signed agreements with a large number of institutions, which allows students to spend part of the degree with them.

Internship

There are more than 700 biotechnological companies in Spain, and more than 50 are located in the Valencian Community. Besides these, many other companies in the health, food, environmental and chemical sectors carry out biotechnological activities. Students can do internships in these companies as well as in hospitals and research centres.

Continuation of studies

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

- MD in Biomedical Biotechnology
- MD in Plant Molecular and Cellular Biotechnology
- MD in Plant Genetics and Breeding
- others MD + levelling subjects

Professional opportunities

The professional fields in which graduates in Biotechnology can work in their profession include the medical, pharmaceutical, agricultural, food, forestry, environmental and chemical industries as well as research in universities and public and private research centres, hospitals and companies. You can also decide to teach in universities, secondary schools or vocational training centres, though to do so, you will need to receive the additional required training.

Enjoy our huge campuses with spaces designed for you such as the Student Recreation House. You can do up to 40 sports in our facilities. You will find many services at your disposal: language classes, discounts in public transport, counselling, employability support…

Study at the UPV

and be part of Spain’s best technological university according to the Shanghai ranking.
### Bachelor's Degree in Biotechnology

**Curriculum**

<table>
<thead>
<tr>
<th>Credits for obtaining the degree</th>
<th>Basic courses</th>
<th>Compulsory</th>
<th>Optional</th>
<th>Internship</th>
<th>TFG</th>
<th>Total</th>
</tr>
</thead>
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<tr>
<td></td>
<td>61.50</td>
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The subjects that you will be able to take

#### Basic courses
- Animal and Human Physiology
- Cell Biology
- Fundamentals of Chemistry
- Fundamentals of Physics for Biotechnology
- General Genetics
- General Microbiology
- Mathematics
- Statistics
- Thermodynamics and Chemical Kinetics

#### Compulsory courses
- Bioinformatics
- Biomolecular Chemistry
- Bioprocess Engineering I - II
- Bioproducts and Bioprocesses
- Bioreactors
- Biotechnology Business Economics
- Bulk Analysis of Biological Data
- General and Applied Enzymology
- Genetic Engineering

#### Elective courses
- Genomics
- Immunology
- Industrial Microbiology
- Instrumental Techniques
- 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
- Virology
- Culture of Animal Cells and Tissues
- Drug Development and Mechanisms of Action
- English B2 for Biotechnology
- Experimentation in Biotechnology
- Forensics Biotechnology
- Human Molecular Pathology
- In Vitro Culture and Plant Genetic Transformation
- Introduction to Biomedicine
- Metabolic Engineering and Synthetic Biology
- Molecular Biology of Cancer
- Plant Biochemistry and Molecular Biology
- Plant Breeding
- Reproduction Biotechnology
- Scientific and Technical French - B1
- Tissue Engineering
- Valencià Tècnic C1 - C2