



Bachelor's Degree in Biomedical Engineering



Engineering and Architecture
Science and Technology for Health



School of Industrial
Engineering
Building 5F
Campus of Vera (València)



4 courses
240 credits



Spanish and
valencian



Credit 19,27€
(2020/2021)
It will make you eligible for
scholarships



75 places



Cut-off mark

2018	12,702
2019	12,564
2020	12,956



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Introduction to the degree

Biomedical engineering applies the principles and methods of engineering to troubleshooting in biology and medicine. It also aims to improve prevention, diagnosis, treatment and rehabilitation methods.

Biomedical engineering is the branch of engineering that has grown fastest in recent years. It is a continuously expanding field where there has been significant demand for professionals who are able to integrate into interdisciplinary teams along with health professionals, biologists and physicians, in order to address new challenges to improve health technology.

Biomedical Engineering students will learn about the following technologies: biomechanics, biomaterials and tissue engineering, bioelectronics, biomedical instrumentation, medical signal processing, medical imaging technology, computer systems and telemedicine, biotechnology and nanotechnology, clinical engineering and hospital management, amongst others.

International mobility

You can spend one semester in a prestigious university in one of more than 30 different countries in Europe and around the world, which the school has signed agreements with. Studying at another university will help you to complete your studies, give you a very positive personal experience, experiencing other cultures and becoming fluent in other languages. You may also spend one semester in a different university in Spain.

Internships

Internships in hospitals are compulsory. You will also have a chance to go on professional internships in private and public companies, the civil service, technological institutes, working in consulting and engineering related to research, development and the management of medical technology. In many cases this will be geared towards your final degree project.

Continuation of studies

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



Professional opportunities

With a degree in Biomedical Engineering you will be able to hold different work positions in the field of biomedical technology, in health centres and hospitals, in the health technology industry, research centres and government agencies within the field of medical technology.

You can work in technical departments in the design, development and innovation of new products, systems and processes. You may also hold positions related to the assessment and management of health technology.

You will be able to work in cooperation with other professionals in the fields of health and life, such as doctors, biologists, nurses, physiotherapists, podiatrists and orthopaedists, amongst others.

Study at the



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 40 sports in our facilities.

You will find many services at your disposal: language classes, discounts in public transport, counselling, employability support...



Credits for obtaining the degree

Basic courses	Compulsory	Optional	Internship	TFG	Total
60.00	144.00	19.50	4.50	12.00	240.00

The subjects that you will be able to take

Basic courses

Business and Economy
Cell-Level Morphology
Chemistry
Computer Engineering and Networks
Graphic Techniques in Biomedical Engineering
Mathematics I - II
Morphology and Function of the Human Body
Physics I - II

Compulsory courses

Bases del Diagnóstico y Tratamiento en Patología Médico-Quirúrgica
Biochemistry and Molecular Biology
Bioelectricity
Bioethics and Deontology
Biomaterials
Biomechanics
Biomedical Imaging

Biomedical Imaging Techniques
Biomedical Instrumentation
Biomedical Signals
Biophysics
Biotechnology and Nanotechnology
Computational Biology
Electronics
Feedback Control in Biomedicine
Hospital Management and Clinical Engineering
Information Systems and Telemedicine I
Innovation & Entrepreneurship
Materials
Mathematics III
Mechanical Systems
Numerical Methods
Projects and Manufacturing
Radiotherapy and Radiation Protection
Statistics
The Role of Biomedical Engineering

Elective courses

Academic and Professional French A1 - A2 - B1 - B2
Academic and Professional German A1 - A2 - B1 - B2
Academic and Professional Italian A1 - A2
Bioinformatics
Biomechanics and Medical Pathology
Biomechanics and Surgical Pathology
Biomedical Signal and Image Analysis
Devices for Diagnosis and Therapy
English B2
Information Systems and Telemedicine II
Intercambio Biomecánica A - B - C
Intercambio Dispositivos Biomédicos A - B - C
Intercambio TIC A - B - C
Micro-Nanotechnology
Minimally Invasive Technology
Tissue Engineering and Regenerative Medicine
Valencià Tècnic C1 - C2