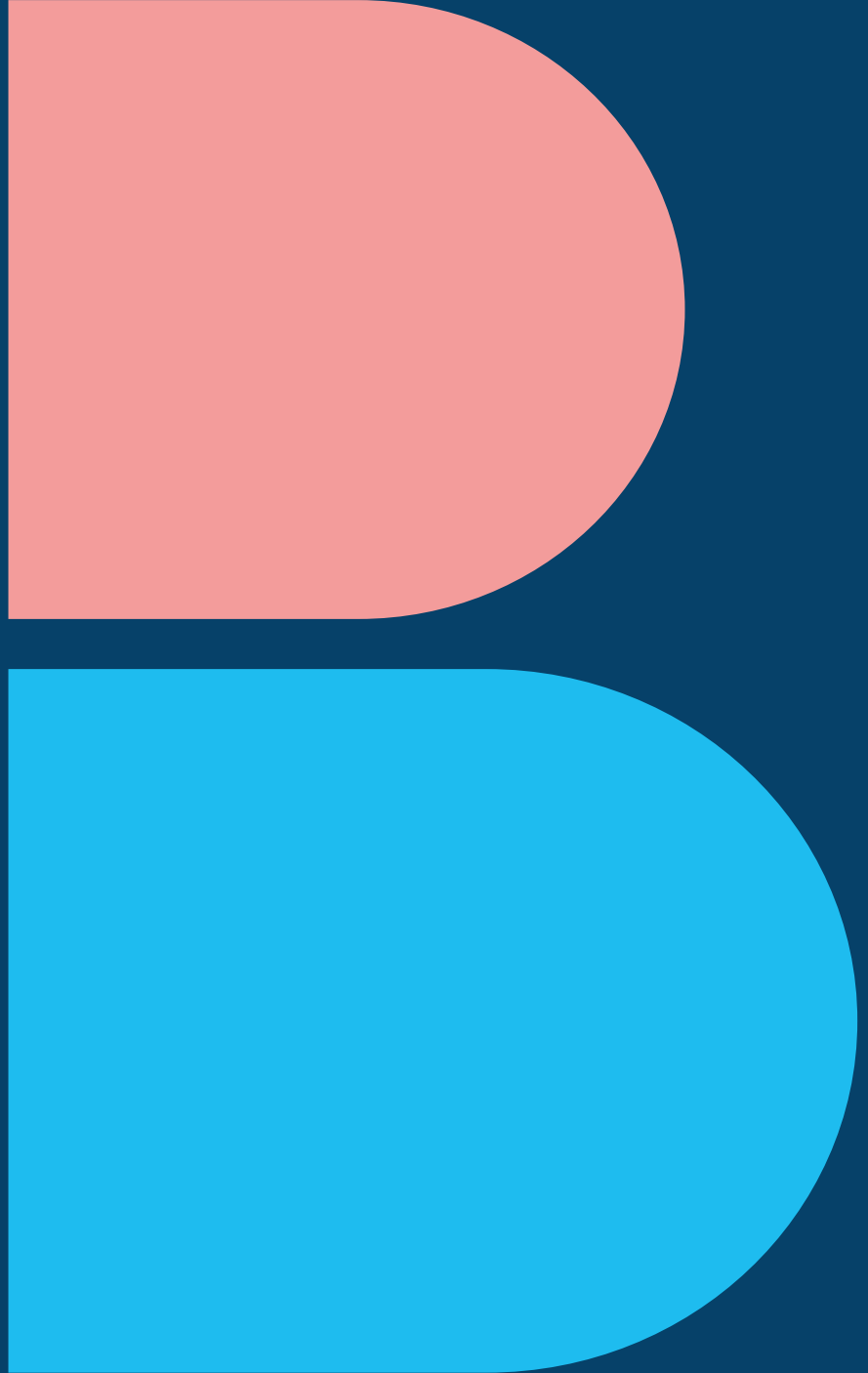


BIOMEDICAL
SCIENCES



BACHELOR'S DEGREE IN Biomedical Sciences

CONTACT INFORMATION

uic.es/contact-detail

T. +34 935 042 000

EXCHANGE UNIVERSITIES



North America 2 agreements

- University of California, Berkeley (Summer Sessions)
- University of California, Los Angeles (UCLA) Extension

South America 3 agreements

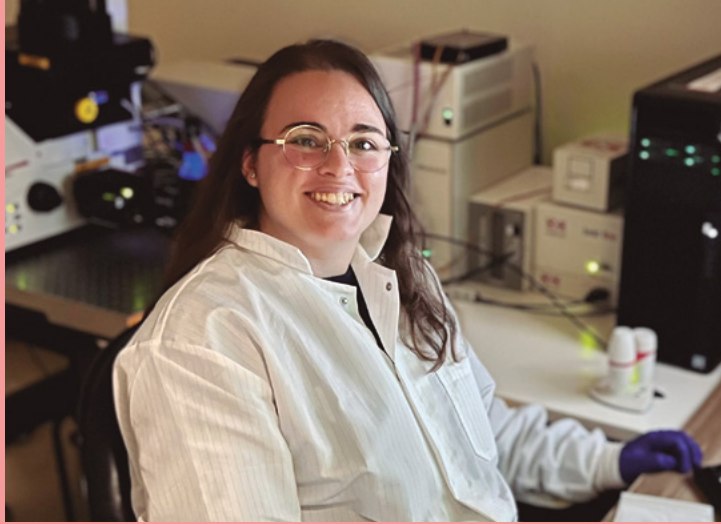
- Pontifical Catholic University of Rio Grande do Sul (PUCRS), Brazil
- University of Monterrey, Mexico
- University of Talca, Chile

Europe 13 agreements

- University of Liège, Belgium
- University of Mons, Belgium
- Leiden University of Applied Sciences, The Netherlands
- Saxion University of Applied Sciences, The Netherlands
- University of Rome Biomedical Campus, Italy
- Northumbria University, United Kingdom
- University of Beira Interior, Portugal
- Egas Moniz School of Health and Science, Portugal
- Vrije Universiteit Amsterdam, The Netherlands
- University of Catania, Italy
- University of Torino, Italy
- University of Heidelberg, Germany
- University of KU Leuven, Belgium

Asia 2 agreements

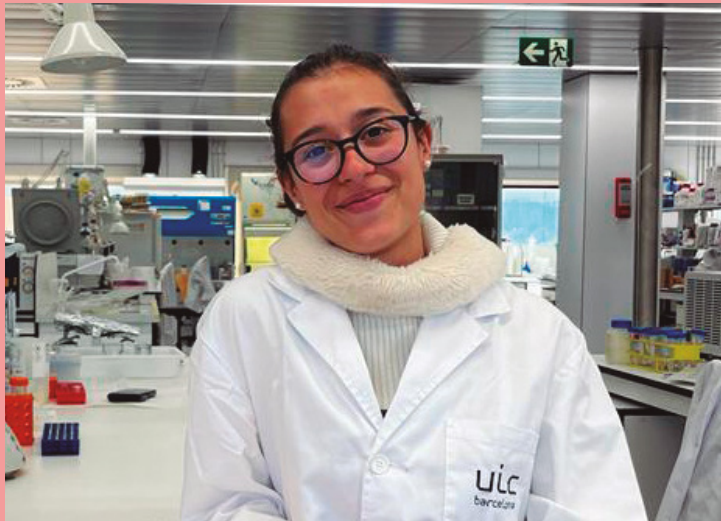
- Saint Joseph University, Beirut
- Innovation Center of NanoMedicine, Kawasaki Institute of Industrial Promotion, Japan



“About the bachelor’s degree programme, I would highlight the possibility of doing training practices abroad since this allowed me to grow on a personal and professional level, and work in the U.S. and have contact with researchers from other parts of the world.”

SARA CREUS

Former student,
Bachelor’s Degree in
Biomedical Sciences



“On studying Biomedical Sciences at UIC Barcelona, I would point out the option available to do different majors within the degree programme that allow you to go further in the areas of research, business or bioinformatics.”

AINA REDONDO

Student,
Bachelor’s Degree in
Biomedical Sciences

Discover the field that combines biology and medicine. This bachelor's degree gives you the chance to dive head first into pathology research, basic biological knowledge transfer to the business world and disease diagnosis, as well as learning about the latest technology used in the field of biomedicine. The future is in your hands.

PROSPECTIVE STUDENTS

If you are a working professional who wants to combine research training with the necessary management skills to transfer knowledge from the laboratory to the patient, this is the degree programme for you.

PROFESSIONAL OPPORTUNITIES

In the final academic year, you can focus on one of three specialisations (**Biomedical Research, Bioinformatics or Biomedical Companies**) and boost your chances of entering the working world.

And, if you want to continue studying biomedicine, you can complement your studies with the official Master's Degree in Experimental Biomedical Research (60 ECTS) and gain access to the doctoral research programme.

WORK PLACEMENT AGREEMENTS

You will carry out work placements in our research laboratories from year one and work with state-of-the-art instruments in small groups.

In the fourth academic year, you'll be able to do your work placement in leading international research centres:

Catalan Institute of Oncology, IRB Barcelona, IBEC, Roche, Boehringer Ingelheim, Biomedical Research Park Barcelona, Echevarne, Ferrer, CRG, Barcelona Supercomputing Centre, IDI BAPS, etc.

MULTIDISCIPLINARY AND CROSS-CURRICULAR EDUCATION

You'll be supported by a team of researchers, teachers and professors from the Faculty of Medicine and Health Sciences, as well as professionals from renowned research centres in Barcelona with years of experience and international prestige. You'll also have the chance to learn about scientific dissemination with classes in Scientific English, and broaden your chances of finding your dream job.

A STRONG INTERNATIONAL FOCUS*

We offer our students the chance to undertake external work placements in renowned international research labs, such as:

- Aarhus University, Denmark
- Leiden University, The Netherlands
- Heidelberg University Hospital, Germany
- Innovation Center of NanoMedicine, Japan
- Lund University, Sweden

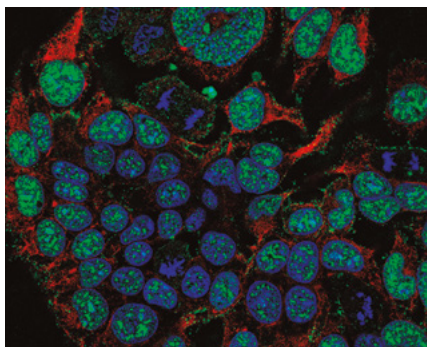
Moreover, UIC Barcelona and the prestigious **University of California, Los Angeles (UCLA)** offer you the chance to complement your studies in the United States. Live the American experience and study the **Certificate Programme in Project Management**, equivalent to a postgraduate degree in Spain.

MORE THAN 50% OF CREDITS ARE TAUGHT IN ENGLISH

MORE THAN 750 HOURS OF LAB WORK PLACEMENTS STARTING FROM YEAR ONE



*Availability may vary from year to year and laboratories may require you to complete an entrance examination.



RESEARCH GROUPS

Cancer Biology

Dr Roni Wright

Ramon y Cajal Grant Recipient

Computational Biology (Genomics)

Uciel Pablo Chorostecki

Ramon y Cajal Grant Recipient

Atypical Cycline Laboratory (Cancer, Cell Metabolism)

Dr Josep Clotet

Fundamental Mechanisms in Cellular Biology (Cancer)

Dr Javier Jiménez

Synaptic Plasticity Laboratory (Neuroscience)

Dr Miquel Bosch

Iron Metabolism Research Group (Genetics)

Dr Mayka Sánchez

Neurolipids Group (Endocrinology, Neurometabolism)

Dr Núria Casals and Dr Rosalía Rodríguez

CURRICULUM

8 SEMESTERS – 240 ECTS
SANT CUGAT CAMPUS
SPANISH, CATALAN AND ENGLISH
FROM SEPTEMBER TO JUNE

1

ECTS	SEMESTER 1
6	Biochemistry I
6	Cell Biology I
6	Molecular Biology
6	Structure and Function of the Integration Systems: Nervous and Endocrine
4	Immersion in Biomedicine
28	Subtotal

ECTS	SEMESTER 2
6	Anthropology
6	Genetics
4	Cell Biology II
4	Microbiology
4	Cellular and Molecular Pathology
4	Scientific English I
4	Integrated Biomedicine I
32	Subtotal

2

ECTS	SEMESTER 1
6	Body Structure and Function: Systems Digestive and Reproductive
6	Immunology
6	Biochemistry II
6	An Introduction to Biomedical Companies
3	Body Structure and Function: Musculoskeletal System
3	Developmental Biology
30	Subtotal

ECTS	SEMESTER 2
6	Biostatistics
6	Physics of Biological Systems
6	An Introduction to Bioinformatics
3	Psychobiology
3	Nutrition
3	Genetic Engineering and Modelling Experimentation
3	Integrated Biomedicine II
30	Subtotal

3

ECTS	SEMESTER 1
9	Body Structure and Function: Cardiovascular, Respiratory and Renal Systems
6	Biomedical Analytical Techniques I
3	Cancer Biology
3	Clinical Genetics
3	Pathophysiology of the Nervous System
3	Entrepreneurship and Innovation
3	Clinical Microbiology
30	Subtotal

ECTS	SEMESTER 2
6	Systems Pathophysiology
6	Pharmacology
3	Biomedical Analysis Techniques II
3	Clinical Biochemistry
3	Bimolecular interaction
3	Toxicology
3	Scientific English II
3	Integrated Biomedicine III
30	Subtotal

4

ECTS	SEMESTER 1
6	Bioethics
3	Biomedical Devices and Bioengineering
3	Regenerative Medicine and Tissue Engineering
3	Epidemiology
5	Biotechnology
10	Optional
30	Subtotal

ECTS	SEMESTER 2
20	Optional
10	Final Degree Project
30	Subtotal

AT UIC BARCELONA, YOU CAN SPECIALISE THANKS TO THREE MAJORS: BIOMEDICAL RESEARCH, BIOMEDICAL BUSINESS OR BIOINFORMATICS.

Optional subjects to specialise in Biomedical Research**

- Laboratory Work Placements in Biomedical Research
- Product Development in The Pharmaceutical Industry
- R&D Project Management
- R&D Dissemination
- Biological Databases
- Alternative Models to Animal Testing
- Nanomedicine

Optional subjects to specialise in Biomedical Companies**

- Product development in the Pharmaceutical Industry
- Business Organisation
- How Intellectual Property Works
- Marketing in the Biomedical Industry
- R&D Project Management
- R&D Dissemination
- Work placement in a Biomedical Company

Optional subjects to specialise in Bioinformatics**

- Biological Databases
- Structural Bioinformatics
- Computational Environment Fundamentals
- Programming Skills (Python + R)
- Artificial Intelligence I: Key Concepts and Techniques
- Artificial Intelligence II: Application to Healthcare
- Data Analysis in Biomedical Sciences
- Bioinformatics for Omics

**The availability of these optional subjects will depend on the number of students enrolled.

ABOUT UIC BARCELONA

Since 1997, UIC Barcelona has been teaching students based on a philosophy of academic rigour, enriching university life and fulfilling life experiences. Our academic institution is home to more than 9,000 students. We offer sixteen bachelor's degrees, around thirty international double degrees and a wide range of master's and postgraduate degrees and continuing education courses.

We offer personalised support, a comprehensive approach to each student, strong links to the professional world and innovative teaching and research methods. We hold people at the centre of our mission, in both the personal and professional sense, so that each member of our community can reach their full potential.

We strive to promote knowledge, research and knowledge transfer.

We are connected to society and companies through sixteen chairs, five company-sponsored classrooms, five research institutions and three university clinics.

At our institution, we are driven by rigour and a critical spirit; we strive to grow and better ourselves to have a positive impact on society.

THE SEARCH FOR EXCELLENCE IS ROOTED IN OUR DNA, AND EFFORT AND DRIVE FOR SELF-IMPROVEMENT ARE OUR CATALYSTS FOR CHANGE.

This ambition can be found in the people and activities at UIC Barcelona.

RANKINGS

The main rankings in which the Universitat Internacional de Catalunya has been classified.



#801-1.000



#=398



#14



FIND OUT HERE ABOUT ALL OUR RANKINGS

UNIVERSITARY LIFE

Experience the best university experience at UIC Barcelona.

Studying at UIC Barcelona involves all-round personal growth.

We promote solidarity, culture and sporting values.



STUDENT SERVICES

At Student Services, we facilitate students' integration into the university system.

We will provide you with information about extracurricular activities, grants, your university student card, etc.

If you need accommodation during your time at the university, the Student Service team will guide you on student residences, accommodation and other services, depending on your needs. We are part of the Barcelona Centre Universitari (BCU), the official welcome and guidance service for the students and university teachers and researchers who come to Barcelona. On the BCU's website you will find information about all kinds of accommodation in Barcelona and the surrounding area.

At Student Services, we will try to answer your questions and encourage you to take part in as many activities as possible.

At UIC Barcelona we promote and organise sports activities and competitions, and we provide discounts and special offers to help you access sports facilities to keep you in shape and live healthier lives. We also have the **Sport Talent programme**, so that top-level athletes can combine professional sport with their university studies.

You can take an active part in **#UICSocialDay** a day on which the whole University comes together to help those most in need. You can also form part of theatre, painting and music groups, which foster **the cultural side of UIC Barcelona and help you acquire more skills and values.**

AN INTERNATIONAL EXPERIENCE

UIC Barcelona's international commitment is evident in the very name of our University, and encompasses every single one of our activities. We are open to the world, which is clear from our wide range of international agreements and mobility programmes for students, teaching staff and researchers.

We offer over 30 international double degrees.

At UIC Barcelona, English is the vehicular language on some degree programmes, and you will have to chance to partake in many activities with the international community.

MENTORING AND COACHING

Every undergraduate student at UIC Barcelona has a personal mentor assigned, someone who will help you with your personal and professional development during the whole of your university studies.

When you finish your bachelor's degree you have the option of a coach who will help you manage the end of your studies and help you begin your professional career.

We aim to provide you with many soft skills by the end of your studies.

CHAPLAINCY

The chapel is a place for **reflection, dialogue and gravity**, and it holds activities that are open to the university community as a whole.

ALUMNI AND CAREERS

Alumni are students who have completed a diploma, undergraduate degree, bachelor's degree, postgraduate degree, clinical residency, master's degree or doctorate at UIC Barcelona.

Being a university student is a way of living and seeing life. **Being a UIC Barcelona alumnus means carrying those values with you wherever you go.**

The UIC Barcelona alumni community has more than 27,000 members. Be part of our community.

UIC Barcelona is connected to the needs of society and companies. For that reason, it complements your academic education **with a comprehensive career guidance service** for both students and graduates.

LINGUISTIC SERVICES

At UIC Barcelona we offer language courses, you can study up to 24 languages both on campus and online. You can also certify your language level with official exams, and participate in different multilingual welcome activities.

TO ACCESS:

1

Fill out the application form at uic.es/application

2

Enter your student portal to upload the required documentation depending on your access route

3

Pay the entrance examination fees

4

Take the entrance examinations

For more information about grants and financial aid visit:

uic.es/grants

Sant Cugat Campus

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