







Lifelong learning at UB

raining in critical care is essential for health-care professionals working in ICUs, emergency departments, and other areas where patients with serious illnesses or requiring intensive care are treated.

Lifelong education in this area is crucial to ensure patient safety and quality of care and should be a priority for all healthcare professionals working in these settings. This training needs to be constantly updated to adapt to changes in healthcare technologies and treatment protocols, as well as to stay up to date with the latest advances in clinical research. Professionals working with critically ill patients must have a broad understanding of the pathophysiology of different diseases, their complications, and techniques such as life support, mechanical ventilation,

and other devices, drug administration, and other therapies. It is important to include training in psychological and emotional care for patients and their families, as well as for the healthcare professionals themselves.

At the University of Barcelona, in collaboration with other national and international institutions, we have been offering an interdisciplinary professional development program in critical care and emergencies since 2005. This program has been successful in providing advanced training for professionals and is a pioneer in educational innovation through the introduction of clinical simulation and reflective analysis in learning. The program is constantly adapting to technological advancements as well as the needs of students and healthcare professionals.

Below, you will find the current **educational offerings**, as well as examples of programs carried out upon request from other institutions.

> Master's Degree

Critical and Emergency Care

https://masterenfermocritico.ub.edu/

Target audience: Graduates in medicine or nursing

Credits: 120 ECTS (6 modules)

Certificate: Lifelong Master's Degree,

interuniversitary UB-UAM

Teaching period: 2 academic years

Modality: Blended Language: Spanish

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Locations: Barcelona, Madrid

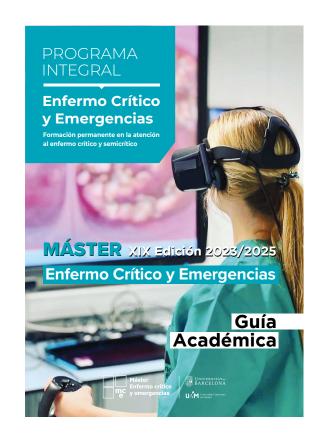
Clinical internships: National and international healthcare

centers and emergency systems

Students: Up to 160 per academic year

The **Master's Degree** in figures

18 6 911 3.123 graduated editions modules faculty students collaborators 2 2 15 academic campuses simulation hospitals









Lifelong learning at UB

> Postgraduate Course

Principles of Critical and **Emergency Care**

https://cursosmedicinaintensiva.ub.edu/fmce/

Directed to: Graduates in medicine or nursing

Credits: 30 ECTS

Certificate: Specialization Diploma **Teaching period:** 8 months

Modality: Virtual Language: Spanish

Students: Up to 60 per academic year

Validates module 1 of the Master in Critical Illness and Emergencies



> Postgraduate Course

Principles of Critical Care Medicine and Intensive Therapy

https://cursosmedicinaintensiva.ub.edu/fmcti/

Directed to: Graduates in medicine or nursing

Credits: 30 ECTS

Certificate: Specialization Diploma

Teaching period: 8 months

Modality: Virtual Language: Spanish

Students: Up to 60 per academic year

Validates module 1 of the Master in Critical Illness and Emergencies

PROGRAMA INTEGRAL Enfermo Crítico y Emergencias Fornación permanente en la atención al enfermo crítico y semicritico POSTGRADO De tebrero a septiembre de 2024 Fundamentos en medicina crítica y terapia intensiva Guía Académica UNIVERBITATIVA BARCELONA PASSE CONTROL CONTROL

> Postgraduate Course

Principles of Critical Care Hepatology

https://cursosmedicinaintensiva.ub.edu/fhc/

Directed to: Medical specialists in Intensive Medicine,

or Gastroenterology, or related specialties

Credits: 30 ECTS

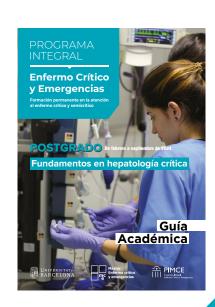
Certificate: Specialization Diploma

Teaching period: 8 months

Modality: Virtual

Language: Catalan/Spanish

Students: Up to 4 per academic year









Society of Critical Care Medicine courses



Advanced university course UB Multiprofessional Critical Care Review

https://cursossccm.ub.edu

Directed to: Graduates in medicine or nursing

Credits: 8 ECTS

Certificate: Advanced university course UB

Teaching period: 2 months

Modality: Blended

Language: Book: English, Virtual part: English,

In-person part: Spanish

Students: Up to 20 per academic year

Advanced university course UB Fundamental Critical Care Support

https://cursossccm.ub.edu

Directed to: Graduates in medicine or nursing

Credits: 4 ECTS

Certificate: Advanced university course UB

Teaching period: 2 months

Modality: Blended

Language: Book: Spanish, Virtual part: English,

In-person part: Spanish

Students: Up to 20 per academic year

Advanced university course UB Fundamental Critical Care Support: Crisis Management

https://cursossccm.ub.edu

Directed to: Graduates in medicine or nursing

Credits: 4 ECTS

Certificate: Advanced university course UB

Teaching period: 2 months

Modality: Blended

Language: Book: English, Virtual part: English,

In-person part: Spanish

Students: Up to 20 per academic year

> Advanced university course UB Critical Care Ultrasound

https://cursossccm.ub.edu

Directed to: Graduates in medicine or nursing

Credits: 4 ECTS

Certificate: Advanced university course UB

Teaching period: 2 months

Modality: Blended

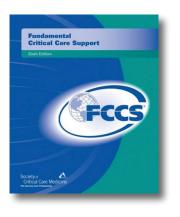
Language: Book: Spanish, Virtual part: English,

In-person part: Spanish

Students: Up to 20 per academic year















Ad-hoc educational programs

We provide **tailor-made teaching** according to the needs of each institution. We offer the possibility of traveling to deliver in-person training *on-site*

Examples of programs developed in recent years

> EduCatVID

Training program in the management of semi-critical and critical patients with COVID-19

Scope: CatSalut (Catalan Health Service) and other

health professionals

Directed to: Medicine and nursing professionals from

hospitalization and intermediate care units

Year: 2020-2021

Objective: Ensure the fundamentals in the care of

critically ill patients with COVID-19

Modality: MOOC (Massive Online Open Course)

Over 20,000 students

Train-the-trainer program: Skills and simulation

(64 participants, 12 hours)

EduCatVID in figures

8856 Coursera

students

11583

CatSalut health professionals

ı

virtual interd

74

24h interdisciplinary simulation



> Vigilance Project

Standardized response to the risk or deterioration of a hospitalized patient. Use of cumputer systems

Scope: Hospital Clínic professionals

Directed to: Physicians and nurses from hospitalization

and critical care units

Year: 2022-2023

Objective: Detect when a patient is at risk or deteriorating, coordinate clinical intervention and escalation by the

healthcare team

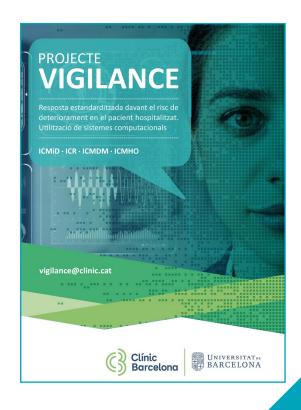
Modality: Blended

Vigilance Project in figures

800

health professionals 27 virtual lessons

7h interdisciplinary simulation









Registration and enrollment in UB courses

1 Admission



APPLICATION: Complete the form on the course website https://masterenfermocritico.ub.edu/admision/



ACCEPTANCE: The application will be evaluated, and a response will be provided within a maximum of one week, along with the UB pre-registration link.

2 Pre-registration



FORM: Complete the required information in the pre-registration system of the University of Barcelona.



PRE-REGISTRATION PAYMENT: Once pre-registered, the online payment will be generated. This payment guarantees the reservation, is non-refundable, and will be deducted from the tuition fee.

3 Enrollment



DOCUMENT SUBMISSION (via email or postal mail): Pre-registered applicants must send the following documents to the Secretary's Office:

- Original or certified copy of ID card, passport, or corresponding identification document.
- Original or certified copy of the university degree or certificate of issuance.
- In the case of non-homologated foreign degrees, a request for authorization to take the course
 must be completed, along with a responsible declaration confirming the authenticity of the
 provided degree information.

http://www.ub.edu/acad/en/admission/international/postgraduate.htm



ENROLLMENT: Once the documentation is verified, you will receive an email with the UB link for course enrollment, the University of Barcelona identification number (NIUB), and the code to access MonUB.



TUITION PAYMENT: Once enrolled, the remaining payment, after deducting the pre-registration fee, will be generated for online payment. This payment is non-refundable, and the payment status can be checked in MonUB.

4 Course Start

Once the enrollment fee is paid, you will have access to the academic content on the Moodle Virtual Campus UB platform.

FOR MORE INFORMATION: SECRETARÍA MÁSTER ENFERMO CRÍTICO Y EMERGENCIAS Facultat de Medicina i Ciències de la Salut C/ Casanova 143 (Planta -1), 08036 Barcelona mce@ub.edu +34 934 020 442 +34 646 884 085





Content Development for Learning

Clinical simulation labs at the Campus Clínic

https://laboratorisimulacioclinica.ub.edu/

The clinical simulation laboratories at the School of Medicine and Health Sciences (Campus Clínic) at the University of Barcelona are a vital asset for the training and professional development of healthcare professionals. They provide advanced technology and a methodological approach that ensures the provision of safer, more efficient, and higher-quality care for critical and semi-critical patients.

These laboratories are widely recognized for their technological excellence and effective teaching methodology. Equipped with stateof-the-art high-fidelity simulators, comprehensive real-life emergency and intensive care equipment, as well as virtual and augmented reality tools, among others, they offer students and healthcare practitioners an immersive and realistic learning experience.

Moreover, the development of essential competencies such as teamwork, communication, leadership, and reflective analysis is a fundamental aspect of the training provided. These competencies play a crucial role in successfully managing crisis situations.



> Audiovisual Unit at the Campus Clínic

https://audiovisualsclinic.ub.edu/

The Audiovisual Unit of the Faculty of Medicine and Health Sciences (Campus Clínic) at the University of Barcelona is a leading center dedicated to producing high-quality audiovisual content for the training and professional growth of healthcare practitioners.

With cutting-edge technology, we offer a comprehensive range of services tailored to meet the needs of medical education. These services encompass the creation of educational modules, the recording of technical skills and simulated clinical cases, and the development of content for immersive virtual reality simulations. Moreover, we specialize in broadcasting and capturing events, providing invaluable assistance in integrating multimedia elements into teaching methodologies. Our facilities are specifically designed to facilitate interactive hybrid learning environments.

At the core of our mission is a commitment to advancing learning in critical and semi-critical patient care. Our primary objective is to enhance the safety, efficiency, and overall quality of healthcare practices.









For more information or to request a quote for educational programs, please contact us at

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