



Master

Auton'Hom-e

Science-Technology-Health

Specialization in Auton'Hom-e [otónomi]

Technical and socio-economic solutions for people's autonomy
Health engineering

A joint France-Portugal diploma

Information Management for Ambient Assisted Living -
TeleHealth

The first year is done at UBI (www.ubi.pt) Universidade de Beira Interior in Covilhã.
The second year is done at Unilim (www.unilim.fr) Université de Limoges.

The official language of training is English.

The following document describes the Units of courses, with the corresponding credits (ECTS), face-to-face hours, and equivalent student workload.

*Workload = duration * 4 in Portugal; Workload = duration * 2 in France
(except intensive language: Workload = duration * 4 in both countries)*

Prerequisites competencies and/or degrees

A. First year at UBI

The accepted degrees are BSc or equivalent in:

- Health sciences including Medicine, Nursing and Pharmacy
- Computer Science including Communication networks, Home Automation and ICT
- Social Sciences
- Human resources management and logistics
- Public Health Management
- Hospital Administration
- Global Health and Public Policy
- e-Health Management
- Bio Sciences including Bioengineering and Genetics
- Bioinstrumentation, Epidemiology, Biotechnology
- Other Sciences related with health or computer science

Equivalent levels can be validated through continuing education in the same domains.

B. Second year at Unilim

Entry in M2 is automatic for students who have validated their first year in Portugal.

You are a student or a professional in the fields of Health, Social and Medical Studies, Management or Technology? Directly enter second year!

Direct entry into second year is for students who have passed the first year of a MSc involving the same skills.

Equivalent engineering school paths in suitable fields, to be validated by consulting with academic team with also be considered.

C. Would you like to increase the prestige of your training and professional skills?

Enter first or second year, depending on your specific field and career path, and by Validating Acquired Experience.

Internship / Master Thesis

During the second year at Unilim, the students can be funded for a 5-month internship abroad in one of the partner universities.

Special partnership

Auton'Hom-e Master degree is affiliated to the French Engineering School Mines-Télécom group. Institut Mines-Télécom is a public institution dedicated to higher education, research and innovation in engineering and digital technologies. The institution is under the authority of the Minister for Industry and Electronic Communication (see. <https://www.mines-telecom.fr/en/>).



Application procedure

A. First year at UBI

- 1/ To apply you will need to complete our postgraduate online application form at <https://academicos.ubi.pt/Default.aspx>
- 2/ Confirm you application form by sending an email to Portuguese and French programme directors (see email addresses below)
- 3/ Your application will be studied by the academic staff.
- 4/ If your application is accepted you will receive further instruction so as to complete your administrative enrolment.

Students will pay fees for the first year at UBI. The Portuguese administrative fees are 1500 € for the first two semesters in Portugal. French Students that are enrolled by UBI can get a scholarship of up to 1000 € paid from Unilim for the fees of the first year. French students will be administratively registered at Unilim, free of fees.

Programme director

Miguel Castelo-Branco

Phone: +351 275 319 700

Fax: +351 275 329 183

Mail: mcbranco@fcsaude.ubi.pt

Associate Professor, MD, PhD

Universidade da Beira Interior - Faculdade de Ciências da Saúde

University of Beira Interior - Faculty of Health Sciences

B. Second year at Unilim

- 1/ To apply for direct entry in second year you will need to complete our postgraduate online application form from mid-March to June 1.

Faculté Sciences et Techniques

Scolarité – Bureau des masters

123 avenue Albert Thomas, 87060 LIMOGES

Tél. 05 55 45 74 02

Mail. msscience@unilim.fr

- 2/ Confirm you application form by sending an email to the French programme director (see email addresses below)

- 3/ Your application will be studied by the academic staff.

- 4/ If your application is accepted you will receive further instruction so as to complete your administrative enrolment.

Applicants living in a country which is a member of CAMPUS France should apply online through their country's CAMPUS France portal before April 1: www.campusfrance.org

Fees: the standard cost of a French Master's degree i.e. administrative enrolments costs (around €600 for the second year).

All students will be also administratively registered at UBI, free of fees.

Programme Director

Laurent Billonnet

Tel. +33 6-07-61-56-97

Mail. laurent.billonnet@unilim.fr

Faculty of Science and Techniques - Limoges University - France

(www.sciences.unilim.fr)

Locations

Universidade da Beira Interior - Faculdade de Ciências da Saúde (www.fcsaude.ubi.pt)
University of Beira Interior - Faculty of Health Sciences
Avenida Infante D. Henrique
6200-506 Covilhã, Portugal

Home Automation & Health Ressources Centre in Guéret
Pôle Domotique et Santé de Guéret
29 route de Courtille, BP 302 - 23006 Guéret Cedex, France
(www.sciences.unilim.fr, www.odyssee2023.com)

Semester 1

Unit	Module	Title	ECTS	Duration (in hours)	Workload (in hours)
U 1-1	Communication, management, research and innovation tools 1		10 (13*)	60 (80*)	240 (320*)
	M 1-1-1	Communication in English 1		15	60
	M 1-1-2	Intensive Portuguese (optional)*	*	20	80
	M 1-1-3	Research methods		15	60
	M 1-1-4	Introduction to Health information systems		30	120
U 1-2	eHealth Technologies and Models		10	60	240
	M 1-2-1	Health technologies		20	80
	M 1-2-2	Models of Quality Management for eHealth		20	80
	M 1-2-3	eHealth 3.0		20	80
U 1-3	eHealth Quality Achievement		10	60	240
	M 1-3-1	Process monitorization, Indicators and Quality		30	120
	M 1-3-2	Security, Privacy and Non-repudiation of Electronic Health Records		30	120
U 1-4	Project 1		-**	30	120
* 3 credits for non-Portuguese speaking students			30 (33*)	210 (230*)	840 (920*)
** All credits for Project are obtained at S2					

Semester 2

Unit	Module	Title	ECTS	Duration (in hours)	Workload (in hours)
U 2-1	Communication, management, research and innovation tools 2		5	40	160
	M 2-1-1	Communication in English 2		15	60
	M 2-1-2	Technological survey		25	100
U 2-2	eHealth Services Development		10	60	240
	M 2-2-1	Process Modelling and Workflows		30	120
	M 2-2-2	Patient Relationship Management		30	120
U 2-3	eHealth Interoperability Standards		10	60	240
	M 2-3-1	Telehealth, methods and models of interoperability		30	120
	M 2-3-2	Medical Devices		30	120
U 2-4	Project 2		5**	30	120
** All credits for Project are obtained at S2			30	190	760

Total for S1 + S2			60 (63*)	400 (420*)	1600 (1680*)
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* 3 credits for non-Portuguese speaking students

Unit	Module	Title	ECTS	Duration (in hours)	Workload (in hours)
U 3-1	Communication, management, research and innovation tools 3		7,5 (10,5*)	90 (110*)	180 (260*)
	M 3-1-1	Communication in English 3		20	40
	M 3-1-2	Intensive French (optional)*	*	20	80
	M 3-1-3	Management and innovation culture		30	60
	M 3-1-4	Communication and innovation		28	56
	M 3-1-5	Entrepreneurship		12	24
U 3-2	Legal and medical social frameworks of aging, dependency and disability		3,5	42	84
	M 3-2-1	Dependence and aging in France		12	24
	M 3-2-2	Organization of medico-social sector		6	12
	M 3-2-3	Home care and services to the person schemes		12	24
	M 3-2-4	Patients' rights		12	24
U 3-3	Home automation and ICT for autonomy		5	60	120
	M 3-3-1	Context of home automation today		17	34
	M 3-2-2	Technical solutions, interfaces and Technology survey		20	40
	M 3-2-3	Intelligent home automation for home support		23	56
U 3-4	Semiotics of the interfaces for autonomy		2	24	48
	M 3-4-1	Definitions of the interface		2	4
	M 3-4-2	User satisfaction and usage of ICT object		7	7
	M 3-4-3	Parameters of Human-Machine interaction		9	18
	M 3-4-4	Interaction and modes of sensitivity		6	12
U 3-5	Medical aspects of loss of autonomy		4	48	96
	M 3-5-1	Context of autonomy and aging		12	24
	M 3-5-2	Pathological criteria leading to a loss of autonomy		9	18
	M 3-5-3	How to fight the loss of autonomy		6	12
	M 3-5-4	ICT and home automation for the elderly		9	18
	M 3-5-5	Socio-economic impact of technologies		12	24
U 3-6	Organization management and socio-economic models		3	36	72
	M 3-6-1	Socio-economic models of Services to the person		12	24
	M 3-6-2	Quality and evaluation process		6	12
	M 3-6-3	Human resources management		6	12
	M 3-6-4	Marketing		6	12
	M 3-6-5	Information systems		6	12
U 3-7	Project 3		5	-	200
* 3 credits for non-French speaking students			30 (33*)	300 (320*)	800 (880*)

Semester 4

Unit	Module	Title	ECTS	Duration (in weeks)	Duration (in hours*)	Workload (in hours)
U 4-1	Internship / Master thesis		30	20	700	800

* 35h per week

Total for S3 + S4				60 (63*)	1000 (1020*)	1600 (1680*)
* 3 credits for non-French speaking students				<i>ECTS</i>	<i>Duration (in hours)</i>	<i>Workload (in hours)</i>