

Curriculum Master of Science Program in *Human Biology – Principles of Health and Disease*

1 st Semester	Mandatory Course: Core Laboratory Skills in Life Sciences (6 ECTS)		Mandatory Course: Computational Applications in Life Sciences (6 ECTS)		Mandatory Course: Immunobiology in Biomedical Sciences (6 ECTS)		Mandatory Course: Current Topics in Biomedical Sciences (6 ECTS)		Interdisciplinary (3 ECTS)	Interdisciplinary (3 ECTS)
	S	P	L	P	L	P	L	S	L / S / P / V	L / S / P / V
2 nd Semester	Concepts Core Topic I (6 ECTS)		Methods Core Topic I (6 ECTS)		Research Course Core Topic A (12 ECTS)				Interdisciplinary (3 ECTS)	Interdisciplinary (3 ECTS)
	L	S	L	P	Research Course			Group Seminar	L / S / P / V	L / S / P / V
			S							
3 rd Semester	Concepts Core Topic II (6 ECTS)		Methods Core Topic II (6 ECTS)		Research Course Core Topic B (12 ECTS)				Interdisciplinary (3 ECTS)	Interdisciplinary (3 ECTS)
	L	S	L	P	Reseach Course			Group Seminar	L / S / P / V	L / S / P / V
			S							
4 th Semester	Master's Project (27 ECTS)								Group Seminar (1.5 ECTS)	Colloquia (1.5 ECTS)
	Master's Thesis (26 ECTS)							Master's Thesis Disputation (1 ECTS)	Attendance Working Group Seminar	Attendance at 20 Scientific Colloquia

Core Topics

Autoimmunity and Immunotherapy
Cardiovascular and Metabolic Diseases
Genomics and Stem Cells
Molecular Microbiology
Molecular Oncology
Neurosciences

L: Lecture

S: Seminar

P: Practical Course

V: Vocational Course

Core Topics

The Modules Concepts and Methods within each Core Topic are designed to be taken together in the same semester. Students select two different Core Topics in semesters two and three, allowing them to deepen their knowledge in two areas of their choice (I and II) while developing their individual academic profile.

Research Courses

Students can select two Research Courses (A and B) from across the six Core Topics, independently of their chosen Concepts and Methods Core Topics (I and II). This flexibility allows them to explore a broad spectrum of biomedical research areas and shape their individual research profile.