



BACHELOR (LT) DEGREE COURSE IN
BIOLOGY OF HUMAN AND ENVIRONMENTAL HEALTH
Curriculum: Human Health – Environmental Health

Study programme for students enrolled in the academic year 2025-2026- entirely held in English

1st YEAR	
MANDATORY UNITS	CREDITS
CHEMISTRY	12
PRINCIPLES OF BIOLOGY	9
FUNDAMENTALS OF MATHEMATICS	7
PHYSICS WITH APPLICATIONS TO BIOLOGICAL SYSTEMS	7
MICROBIOLOGY	8
BIOCHEMISTRY C.I.	12
BIOSTATISTICS	6
2nd YEAR	
MANDATORY UNITS	CREDITS
MOLECULAR BIOLOGY AND GENETICS	14
CELLS, TISSUES, EMBRYOLOGY AND DEVELOPMENT	9
GLOBAL CHANGE AND HUMAN BIOLOGY	6
ANATOMY AND PHYSIOLOGY C.I.	14
PATHOLOGY	7
INTRODUCTION TO ENVIRONMENTAL HEALTH	6
COMPUTATIONAL METHODS IN BIOINFORMATICS	5
3rd YEAR	
In the 3rd year the student may choose between the following study paths:	
<ul style="list-style-type: none"> • HUMAN HEALTH (at University of Padua): focus on the fields of molecular and cellular biology, epidemiology, pathology, bioethics and public health, immunology and pharmacology; • ENVIRONMENTAL HEALTH (at University of Bologna): focus on environment physiology, on human-environment interactions and their spillovers on human health and nutrition, with specific knowledges on microbiology and genome editing. 	

3rd YEAR – CURRICULUM HUMAN HEALTH (UNIPD)	
MANDATORY UNITS	CREDITS
EPIDEMIOLOGY, PUBLIC HEALTH AND BIOETHICS	9
CLINICAL AND MOLECULAR BIOLOGY	7
HUMAN GENETICS	7
IMMUNOLOGY AND IMMUNOPATHOLOGY	7
PHARMACOLOGY AND PHARMACOGENOMICS	8
2 FREE-CHOICE UNITS AMONG THE FOLLOWING:	
INTRODUCTION TO NEUROBIOLOGY	6
COMPUTATIONAL METHODS IN BIOINFORMATICS 2	6
TRANSNATIONAL AND EUROPEAN RESEARCH LAW	6
PATHOPHYSIOLOGY	6
STAGE	5
FINAL THESIS/DISSERTATION	4
3rd YEAR – ENVIRONMENTAL HEALTH (UNIBO)	
MANDATORY UNITS	CREDITS
ENVIRONMENTAL PHYSIOLOGY	6
PLANT HUMAN ENVIRONMENT INTERACTIONS C.I.	12
MOLECULAR BASIS OF GENOME EDITING	7
CLIMATE CHANGE MICROBIOLOGY IN HUMAN HEALTH	7
PLANT METABOLISM FOR HUMAN HEALTH AND NUTRITION	6
2 FREE-CHOICE UNITS AMONG THE FOLLOWING:	
PLANT FUNCTIONAL GENOMICS	6
VIRAL GENETICS	6
ENVIRONMENTAL HYGIENE	6
APPLIED MEDICAL BOTANY	6
HUMAN NUTRITION AND ENVIRONMENT	6
ADVANCED METHODS IN GENOME EDITING	6
STAGE	5

ANY FURTHER NOTES

Attendance is mandatory according to the didactic regulamentation.

Free-choice credits can be chosen among the university's educational offer as long as they are consistent with the educational path.