

Curriculum “Biological Resources “				Curriculum “Astrobiology”			
FIRST YEAR SCHEDULE				FIRST YEAR SCHEDULE			
1st semester				1st semester			
<i>Course</i>	CFU	Scientific-disciplinary sector	Lecturer	<i>Course</i>	CFU	Scientific-disciplinary sector	Lecturer
Introduction to Earth System Sciences	6	GEO/02	Mariano Parente	Introduction to Earth System Sciences	6	GEO/02	Mariano Parente
Microbiology of extreme environments	8	BIO/19	Donato Giovannelli	Microbiology of extreme environments	8	BIO/19	Donato Giovannelli
Biodiversity and primary productivity in extreme environments	6	BIO/01	Antonino Pollio	Extreme environments: Earth and Space	6	BIO/07	Carmen Arena
Chemistry of Biopolymers and metabolites from Extreme Environments	6	CHIM/06	Michela Corsaro	Astrochemistry and prebiotic process	6	CHEM/06	Paola Manini
2nd semester				2nd semester			
<i>Course</i>	CFU	Scientific-disciplinary sector	Lecturer	<i>Course</i>	CFU	Scientific-disciplinary sector	Lecturer
Biochemistry and molecular adaptation to extreme environments	8	BIO/10	Marco Moracci	Astrobotany	6	BIO/03	Valeria Spagnuolo
Ecology of extreme environments	6	BIO/07	Olga Mangoni	Biochemistry and molecular adaptation to extreme environments	8	BIO/10	Marco Moracci
Applied microbiology of extremophiles	6	BIO/19	Angelina Cordone	Physiology and Nutrition in Space Conditions	6	BIO/09	Arianna Mazzoli
Optional course	6			Optional course	6		
Total CFU first year	52			Total CFU first year	52		

SECOND YEAR SCHEDULE				SECOND YEAR SCHEDULE			
1st semester				1st semester			
<i>Course</i>	CFU	Scientific-disciplinary sector	Lecturer	<i>Course</i>	CFU	Scientific-disciplinary sector	Lecturer
Discovery and applications of extremophilic enzymes	6	BIO/10	RT-B	Microbial metabolism and planetary habitability	6	BIO/19	Donato Giovannelli
Extreme Environments and Public Health	6	MED/42	Giovanni Libralato	Emergence of life and exobiology	6	BIO/10	Patrizia Contursi
Omics data analysis	6	BIO/18	Marco Salvemini	Omics data analysis	6	BIO/18	Marco Salvemini
Optional course	6			Optional course	6		
Thesis	14			Thesis	14		
2nd semester				2nd semester			
	CFU	Scientific-disciplinary sector	Lecturer		CFU	Scientific-disciplinary sector	Lecturer
Thesis	24			Thesis	24		
Other activity / Italian language (for international student)	6			Other activity / Italian language (for international student)	6		
Total CFU second year	68			Total CFU second year	68		