



DEGREE PROGRAM ACADEMIC YEAR 2024/2025					
CLASS L-13 - BIOLOGICAL SCIENCES (D.M. 270/04)					
Degree Course: BIOLOGICAL SCIENCES					
CURRICULUM BIOMOLECULAR					
	SUBJECT	Tipologia	SETTORE	Tot. CFU	Tot. Ore
<b>FIRST YEAR</b>					
1	MATHEMATICS AND STATISTICS	Base	MAT/05	9	72
2	PHYSICS	Base	FIS/07	8	64
3	CYTOLOGY AND HISTOLOGY	Base	BIO/06	7	56
4	ZOOLOGY	Base	BIO/05	7	56
5	BOTANY	Base	BIO/01	7	56
<i>COMBINED COURSE: CHEMISTRY</i>					
6	> GENERAL CHEMISTRY	Base	CHIM/03	8	120
	> ORGANIC CHEMISTRY	Base	CHIM/06	7	
	ENGLISH	LS		4	/
				<b>Total CFU</b>	<b>57</b>
<b>SECOND YEAR (to be activated 2025/2026)</b>					
7	LABORATORY OF APPLIED BIOLOGY	Aff.	BIO/13	6	48
8	BIOCHEMISTRY	Caratt.	BIO/10	7	56
9	ECOLOGY	Caratt.	BIO/07	7	56
10	GENERAL PHYSIOLOGY	Caratt.	BIO/09	6	48
11	HUMAN ANATOMY	Caratt.	BIO/16	6	48
<i>INTEGRATED COURSE: MOLECULAR BIOLOGY AND GENETICS</i>					
12	MOLECULAR BIOLOGY	Caratt.	BIO/11	6	96
	GENETICS	Caratt.	BIO/18	6	
13	CELL BIOLOGY	Aff.	BIO/06	7	56
14	BIOLOGICAL BASIS OF NUTRITION	Aff.	BIO/16	6	48
				<b>Total CFU</b>	<b>63</b>
<b>THIRD YEAR (to be activated 2026/2027)</b>					
15	DEVELOPMENTAL BIOLOGY	Caratt.	BIO/06	7	56
16	PLANT PHYSIOLOGY	Caratt.	BIO/04	6	48
17	COMPARATIVE ANATOMY	Caratt.	BIO/06	7	56
18	GENERAL MICROBIOLOGY	Caratt.	BIO/19	7	56
<i>INTEGRATED COURSE: BIOMOLECULAR LABORATORY</i>					
19	LABORATORY OF MOLECULAR BIOLOGY	Caratt.	BIO/11	5	80
	LABORATORY OF GENETICS	Aff.	BIO/18	5	
2 MODULES TO CHOOSE BETWEEN:				<b>6</b>	
	DATA ANALYSIS	Altre	INF/01	3	
	ELEMENTS OF LEGISLATION AND QUALITY MANAGEMENT SYSTEMS***	Altre	BIO/19	3	
	START-UP AND BUSINESS PLANS	Altre	ING-IND/26	3	
	BIOMEDICAL LABORATORY SAFETY***	Altre	MED/44	3	
				<b>6</b>	<b>/</b>
				<b>5</b>	<b>/</b>
				<b>6</b>	<b>/</b>
				<b>Total CFU</b>	<b>60</b>
20	<b>COURSES FOR OPTIONAL CREDITS *</b>				
	PHARMACOLOGY **	D	BIO/14	6	48
	BIOETHICS **	D	IUS/20	6	48
	INSTRUMENTAL ANALYTICAL CHEMISTRY	D	CHIM/01	6	48
	ETOLOGY	D	BIO/05	6	48
	PALEONTOLOGY	D	GEO/01	6	48
	FUNDAMENTALS OF GEOLOGY	D	GEO/02	6	48

The courses for credits to be chosen are valid for both curricula

\* At least 6 CFU must be acquired attending one of the following optional courses

\*\* to be inserted in the career of students that didn't submit an individual study plan

> Bioethics - second year

> Pharmacology - third year

> Elements of legislation and quality management systems - >Biomedical Laboratory Safety

a) 1 credit= 8 hours. Together with the theoretical lectures, all courses must have at least 1 credit of experimental session

b) to take the third year examinations students have to have passed the English Language test

c) combined courses involve various courses with only one final examination



DEGREE PROGRAM ACADEMIC YEAR 2024/2025					
CLASS L-13 - BIOLOGICAL SCIENCES (D.M. 270/04)					
Degree Course: BIOLOGICAL SCIENCES					
CURRICULUM MARINE					
SUBJECT	Tipologia	SETTORE		Tot. CFU	Tot. Ore
<b>FIRST YEAR</b>					
1	MATHEMATICS AND STATISTICS	Base	MAT/05	9	72
2	PHYSICS	Base	FIS/07	8	64
3	CYTOLOGY AND HISTOLOGY	Base	BIO/06	7	56
4	ZOOLOGY	Base	BIO/05	7	56
5	BOTANY	Base	BIO/01	7	56
6	COMBINED COURSE: CHEMISTRY				
	> GENERAL CHEMISTRY	Base	CHIM/03	8	120
	> ORGANIC CHEMISTRY	Base	CHIM/06	7	
	ENGLISH	LS		4	/
			<b>Total CFU</b>	<b>57</b>	
<b>SECOND YEAR (to be activated 2025/2026)</b>					
7	LABORATORY OF APPLIED BIOLOGY	Aff.	BIO/13	6	48
8	BIOCHEMISTRY	Caratt.	BIO/10	7	56
9	ECOLOGY	Caratt.	BIO/07	7	56
10	GENERAL PHYSIOLOGY AND PHYSIOLOGY OF MARINE ANIMALS	Caratt.	BIO/09	10	80
11	MARINE GEOLOGY	Aff.	GEO/01	5	40
12	INTEGRATED COURSE: MOLECULAR BIOLOGY AND GENETICS				
	MOLECULAR BIOLOGY	Caratt.	BIO/11	6	96
	GENETICS	Caratt.	BIO/18	6	
13	MARINE BIOLOGY	Aff.	BIO/07	7	56
	OPTIONAL CREDITS *			6	16
			<b>Total CFU</b>	<b>60</b>	
<b>THIRD YEAR (to be activated 2026/2027)</b>					
14	DEVELOPMENTAL BIOLOGY	Caratt.	BIO/06	7	56
15	PLANT PHYSIOLOGY	Caratt.	BIO/04	6	48
16	COMPARATIVE ANATOMY	Caratt.	BIO/06	7	56
17	GENERAL MICROBIOLOGY AND MARINE MICROBIOLOGY	Caratt.	BIO/19	10	80
18	MARINE ANIMAL BIODIVERSITY	Caratt.	BIO/05	5	40
19	BIODIVERSITY OF ALGAE AND MARINE PLANTS	Aff.	BIO/01	5	40
	2 MODULES TO CHOOSE BETWEEN:			6	
	DATA ANALYSIS	Altre	INF/01	3	
	ELEMENTS OF LEGISLATION AND QUALITY MANAGEMENT	Altre	BIO/19	3	
	START-UP AND BUSINESS PLANS	Altre	ING-IND/26	3	
	BIOMEDICAL LABORATORY SAFETY***	Altre	MED/44	3	
	OPTIONAL CREDITS*			6	/
	PRACTICAL TRAINING			5	/
	FINAL EXAM			6	/
				<b>63</b>	
20	<b>COURSES FOR OPTIONAL CREDITS *</b>				
	PHARMACOLOGY	D	BIO/14	6	48
	BIOETHICS **	D	IUS/20	6	48
	INSTRUMENTAL ANALYTICAL CHEMISTRY	D	CHIM/01	6	48
	ETOLOGY **	D	BIO/05	6	48
	PALEONTOLOGY	D	GEO/01	6	48
	FUNDAMENTALS OF GEOLOGY	D	GEO/02	6	48

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c) combined courses involve various courses with only one final examination