

University of Mosul

جامعة الموصل



College of Science

كلية العلوم

First Cycle – Bachelor's degree (B.Sc.) – Biology

بكالوريوس علوم - علوم الحياة



Table of Contents

1. Overview
2. Undergraduate Modules 2023-2024
3. Contact

1. Overview

This catalogue is about the courses (modules) given by the program of **Biology** to gain the Bachelor of Science degree. The program delivers **(48)** Modules with **(6000)** total student workload hours and 240 total ECTS. The module delivery is based on the Bologna Process.

نظره عامه

يتناول هذا الدليل المواد الدراسية التي يقدمها برنامج **علوم الحياة** للحصول على درجة بكالوريوس العلوم. يقدم البرنامج **(48)** مادة دراسية، على سبيل المثال، مع **(٦٠٠٠)** إجمالي ساعات حمل الطالب و ٢٤٠ إجمالي وحدات أوروبية. يعتمد تقديم المواد الدراسية على عملية بولونيا.

2. Undergraduate Courses 2023-2024

Module 1

Code	Course/Module Title	ECTS	Semester
Bio-1101	General Zoology	8	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/3	108	92
Description			
This section includes a description of the module, 100-150 words			

Module 2

Code	Course/Module Title	ECTS	Semester
Bio-1102	Analytical Chemistry	8	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/3	108	92
Description			
This section includes a description of the module, 100-150 words			

Module 3

Code	Course/Module Title	ECTS	Semester
Sci-1105	General Mathematics	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

Module 4

Code	Course/Module Title	ECTS	Semester
Bio-1103	Biophysics	8	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/3	108	92
Description			
This section includes a description of the module, 100-150 words			

Module 5

Code	Course/Module Title	ECTS	Semester
UOM-104	Human Rights and Democracy	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

Module 6

Code	Course/Module Title	ECTS	Semester
UOM-101	Arabic Language	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

Module 7

Code	Course/Module Title	ECTS	Semester
Bio-1204	General Botany	8	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/3	108	92
Description			
This section includes a description of the module, 100-150 words			

Module 8

Code	Course/Module Title	ECTS	Semester
Bio-1205	Organic Chemistry	8	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/3	108	92
Description			
This section includes a description of the module, 100-150 words			

Module 9

Code	Course/Module Title	ECTS	Semester
Bio-1206	Biostatistics	5	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	63	47
Description			
This section includes a description of the module, 100-150 words			

Module 10

Code	Course/Module Title	ECTS	Semester
Bio-1207	Safety and biosecurity	4	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/ / /	63	52
Description			
This section includes a description of the module, 100-150 words			

Module 11

Code	Course/Module Title	ECTS	Semester
UOM-103	Computer Science	3	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/2/ /	63	12
Description			
This section includes a description of the module, 100-150 words			

Module 12

Code	Course/Module Title	ECTS	Semester
UOM-102	English Language	2	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1///	45	5
Description			
This section includes a description of the module, 100-150 words			

Module 13

Code	Course/Module Title	ECTS	Semester
Bio-2308	Entomology I	6	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 14

Code	Course/Module Title	ECTS	Semester
Bio-2309	Plant Anatomy	6	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 15

Code	Course/Module Title	ECTS	Semester
Bio-23010	Invertebrates	6	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 16

Code	Course/Module Title	ECTS	Semester
Bio-23011	Biochemistry I	5	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3 / /	78	47
Description			
This section includes a description of the module, 100-150 words			

Module 17

Code	Course/Module Title	ECTS	Semester
Bio-23012	Microbiology I	5	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3 / /	78	47
Description			
This section includes a description of the module, 100-150 words			

Module 18

Code	Course/Module Title	ECTS	Semester
UOM-105	Crimes of the Baath party	2	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	///	33	17
Description			
This section includes a description of the module, 100-150 words			

Module 19

Code	Course/Module Title	ECTS	Semester
Bio-24113	Entomology II	6	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

Module 20

Code	Course/Module Title	ECTS	Semester
Bio-24114	Plant Taxonomy	6	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

Module 21

Code	Course/Module Title	ECTS	Semester
Bio-24115	Parasitology	6	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

Module 22

Code	Course/Module Title	ECTS	Semester
Bio-24116	Biochemistry II	4	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	22
Description			
This section includes a description of the module, 100-150 words			

Module 23

Code	Course/Module Title	ECTS	Semester
Bio-24117	Microbiology II	4	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/2 / /	63	37
Description			
This section includes a description of the module, 100-150 words			

Module 24

Code	Course/Module Title	ECTS	Semester
Bio-24018	Plant Groups	4	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/2 / /	63	37
Description			
This section includes a description of the module, 100-150 words			

Module 1-25

Code	Course/Module Title	ECTS	Semester
Bio1-35019	Cell Biology	6	Five/Biology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 1- 26

Code	Course/Module Title	ECTS	Semester
Bio1-35020	Ecology	5	Five/Biology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	47
Description			
This section includes a description of the module, 100-150 words			

Module 1- 27

Code	Course/Module Title	ECTS	Semester
Bio1-35021	Biotechnology	5	Five/Biology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	47
Description			
This section includes a description of the module, 100-150 words			

Module 1-28

Code	Course/Module Title	ECTS	Semester
Bio1-35022	Mycology I	6	Five/Biology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 1- 29

Code	Course/Module Title	ECTS	Semester
Bio1-35023	Laboratory analysis	6	Five/Biology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 1- 30

Code	Course/Module Title	ECTS	Semester
Bio1-35024	Research Methodology	2	Five/Biology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

Module 1- 31

Code	Course/Module Title	ECTS	Semester
Bio1-36025	Plant Pathology	6	Six/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

Module 1- 32

Code	Course/Module Title	ECTS	Semester
Bio1-36026	Histology	6	Six/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

Module 1-33

Code	Course/Module Title	ECTS	Semester
Bio1-36027	Diagnostic parasite	6	Six/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

Module 1-34

Code	Course/Module Title	ECTS	Semester
Bio1-36128	Pollution	4	Six/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/2/ /	64	36
Description			
This section includes a description of the module, 100-150 words			

Module 1- 35

Code	Course/Module Title	ECTS	Semester
Bio1-36129	Genetics	5	Six/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	47
Description			
This section includes a description of the module, 100-150 words			

Module 1- 36

Code	Course/Module Title	ECTS	Semester
Bio1-36030	Allelopathy	3	Six/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/2/ /	63	12
Description			
This section includes a description of the module, 100-150 words			

Module 2-25

Code	Course/Module Title	ECTS	Semester
Bio2-35019	Soil Microbiology	5	Five/ Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	47
Description			
This section includes a description of the module, 100-150 words			

Module 2- 26

Code	Course/Module Title	ECTS	Semester
Bio2-35020	Laboratory Analysis	6	Five/ Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 2-27

Code	Course/Module Title	ECTS	Semester
Bio2-35021	Histology	6	Five/ Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 2-28

Code	Course/Module Title	ECTS	Semester
Bio2-35022	Ecology	5	Five/ Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	47
Description			
This section includes a description of the module, 100-150 words			

Module 2-29

Code	Course/Module Title	ECTS	Semester
Bio2-35023	Cell Biology	6	Five/ Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 2-30

Code	Course/Module Title	ECTS	Semester
Bio2-35024	Research Methodology	2	Five/ Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

Module 2- 31

Code	Course/Module Title	ECTS	Semester
Bio2-36025	Water Microbiology	6	Six/Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

Module 2-32

Code	Course/Module Title	ECTS	Semester
Bio2-36026	Bacterial Physiology	6	Six/Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

Module 2- 33

Code	Course/Module Title	ECTS	Semester
Bio2-36027	Animal Physiology	6	Six/Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

Module 2-34

Code	Course/Module Title	ECTS	Semester
Bio2-36128	Pollution	4	Six/Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/2/ /	64	36
Description			
This section includes a description of the module, 100-150 words			

Module 2-35

Code	Course/Module Title	ECTS	Semester
Bio2-36129	Genetics	3	Six/Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/2/ /	63	12
Description			
This section includes a description of the module, 100-150 words			

Module 2-36

Code	Course/Module Title	ECTS	Semester
Bio2-36030	Antibiotics	5	Six/Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	47
Description			
This section includes a description of the module, 100-150 words			

Module 1-37

Code	Course/Module Title	ECTS	Semester
Bio1-47031	Animal Physiology 1	6	Seven/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 1-38

Code	Course/Module Title	ECTS	Semester
Bio1-47032	Plant Physiology 1	6	Seven/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 1-39

Code	Course/Module Title	ECTS	Semester
Bio1-47033	Embryology	6	Seven/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 1-40

Code	Course/Module Title	ECTS	Semester
Bio1-47034	Quantitative Genetics	6	Seven/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 1-41

Code	Course/Module Title	ECTS	Semester
Bio1-47035	Molecular biology	4	Seven/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	78	22
Description			
This section includes a description of the module, 100-150 words			

Module 1-42

Code	Course/Module Title	ECTS	Semester
Bio1-47036	Research Project	2	Seven/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

Module 1-43

Code	Course/Module Title	ECTS	Semester
Bio1-48137	Animal Physiology 2	6	Eight/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 1-44

Code	Course/Module Title	ECTS	Semester
Bio1-48138	Plant Physiology 2	6	Eight/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 1-45

Code	Course/Module Title	ECTS	Semester
Bio1-48039	Comparative Anatomy	6	Eight/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module1- 46

Code	Course/Module Title	ECTS	Semester
Bio1-48040	Biodiversity	6	Eight/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 1-47

Code	Course/Module Title	ECTS	Semester
Bio1-48041	Immunology	4	Eight/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	78	22
Description			
This section includes a description of the module, 100-150 words			

Module 1-48

Code	Course/Module Title	ECTS	Semester
Bio1-48142	Research Project	2	Eight/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

Module 2-37

Code	Course/Module Title	ECTS	Semester
Bio2-47031	Immunology	6	Seven/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 2-38

Code	Course/Module Title	ECTS	Semester
Bio2-47032	pathogenic Bacteriology	6	Seven/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 2-39

Code	Course/Module Title	ECTS	Semester
Bio2-47033	Food Microbiology	6	Seven/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 2-40

Code	Course/Module Title	ECTS	Semester
Bio2-47034	Mycology	6	Seven/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 2-41

Code	Course/Module Title	ECTS	Semester
Bio2-47035	Enzymology	4	Seven/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	78	22
Description			
This section includes a description of the module, 100-150 words			

Module 2-42

Code	Course/Module Title	ECTS	Semester
Bio2-47036	Research Project	2	Seven/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

Module 2- 43

Code	Course/Module Title	ECTS	Semester
Bio2-48037	Microbial Genetics	6	Eight/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 2-44

Code	Course/Module Title	ECTS	Semester
Bio2-48038	Virology	6	Eight/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 2- 45

Code	Course/Module Title	ECTS	Semester
Bio2-48139	Industrial Microbiology	6	Eight/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 2- 46

Code	Course/Module Title	ECTS	Semester
Bio2-48140	Fungal Taxonomy	6	Eight/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

Module 2- 47

Code	Course/Module Title	ECTS	Semester
Bio2-48041	Molecular biology	4	Eight/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	78	22
Description			
This section includes a description of the module, 100-150 words			

Module 2-48

Code	Course/Module Title	ECTS	Semester
Bio2-48142	Research Project	2	Eight/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

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