

Name of the University
Fallujah University



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

كلية العلوم التطبيقية – بكالوريوس تقنيات حيائية



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1. Overview

This catalogue is about the courses (modules) given by the program of biotechnology to gain the Bachelor of Science degree in biotechnology. The program delivers (8) Modules with (1500) total student workload hours and 60 total ECTS for first year. The module delivery is based on the Bologna Process.

نظره عامه

يتناول هذا الدليل المواد الدراسية التي يقدمها برنامج التقنيات الاحيائية للحصول على درجة بكالوريوس في التقنيات الحياتية. يقدم البرنامج (٨) مادة دراسية، على سبيل المثال، مع (١٥٠٠) إجمالي ساعات حمل الطالب و٦٠ إجمالي وحدات أوروبية للسنة الاولى. يعتمد تقديم المواد الدراسية على عملية بولونيا.

2. Undergraduate Courses 2023-2024

Module 1

Code	Course/Module Title	ECTS	Semester
Biot-111	Principle of biotechnology	8	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	2-2	153	47
Description			
The principles of biotechnology aimed to study the use of biology to develop new products, methods and organisms intended to improve human health and society. Biotechnology, often referred to as biotech, has existed since the beginning of civilization with the domestication of plants, animals and the discovery of fermentation			

Module 2

Code	Course/Module Title	ECTS	Semester
Biot-112	Biophysics	8	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	2-2	128	72
Description			
<p>Medical physics deals with the application of the concepts and methods of physics to the prevention, diagnosis and treatment of human diseases with a specific goal of improving human health and well-being. Since, medical physics has been included as a health profession according to International Standard Classification of Occupation of the International Labour Organization.</p> <p>Although medical physics may sometimes also be referred to as biomedical physics, medical biophysics, applied physics in medicine, physics applications in medical science, radiological physics or hospital radio-physics, a "medical physicist" is specifically a health professional.</p>			

Module 3

Code	Course/Module Title	ECTS	Semester
Sci-101	Computer	7	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	125	50
Description			
<p>Computer science is the study of computation, information, and automation. Computer science spans theoretical disciplines (such as algorithms, theory of computation, and information theory) to applied disciplines (including the design and implementation of hardware and software such as Microsoft word, microsoft excel).</p>			

Module 4

Code	Course/Module Title	ECTS	Semester
UOF-101	English	4	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	75	100
Description			
<p>The course focus on developing skills such as reading, writing, analysis, communication, vocabulary, research, and other language skills, all of which students will use in future English classes and other subject areas</p>			

Module 5

Code	Course/Module Title	ECTS	Semester
UOF-102	Human rights and democracy	3	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	53	22
Description			
Human rights are a set of principles concerned with equality and fairness. They recognise our freedom to make choices about our lives and to develop our potential as human beings. They are about living a life free from fear, harassment or discrimination			

Module 6

Code	Course/Module Title	ECTS	Semester
Biot -121	General biology	8	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	2-2	153	47
Description			
Students will investigate biological concepts including the chemical basis of life, cell structure and function, metabolism, reproduction, genetics, evolution, biological diversity and classification, plant structure and function, animal structure and function and ecology			

Module 7

Code	Course/Module Title	ECTS	Semester
Biot-122	General chemistry	8	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	2-2	128	72
Description			
General chemistry deals with the composition and structure of matter. In other words, it is the art and science of determining what matter is and how much of it exists. chemistry studies and uses instruments and methods to separate, identify, and quantify matter. In practice, separation, identification or quantification may constitute the entire analysis or be combined with another method. Classical qualitative methods use separations such as precipitation& extraction,			

Module 8

Code	Course/Module Title	ECTS	Semester
Bio -123	Biostatistics	6	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	75	50
Description			
<p>This course provides an overview of statistical methods for analyzing correlated data produced by longitudinal measurements taken over time. Topics include study design, exploratory data analysis techniques and linear mixed effects regression models</p>			

Module 9

Code	Course/Module Title	ECTS	Semester
Biot-124	Biosafety	3	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	53	22
Description			
<p>The biosafety program deals with safety and compliance in all research and teaching laboratory spaces to reduce the risk of injury and exposure, decrease the risk of property loss, lessen the likelihood of lost research, and minimize environmental damage.</p> <p>Laboratory safety practices include appropriate facilities and equipment, adequate training, personal protective equipment, chemical management, standard operating procedures, waste handling, signage, proper laboratory practices and safe working conditions. Laboratory safety helps protect the community of students, faculty, staff and visitors, and includes oversight for compliance and safety, training and outreach, institutional support for incident response, building design, and collaboration with committees.</p>			

Module 10

Code	Course/Module Title	ECTS	Semester
UOF-103	Arabic	3	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	53	22
Description			
Teaching students writing skills at the level of spelling, grammar and morphology, as well as teaching students the method of analyzing the literary text by referring to significant literary texts.			

Module 11

Code	Course/Module Title	ECTS	Semester
UOF-104	Al Baath party crime	2	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	53	22
Description			
Teaching students historical of Al Ba`ath party crime			

Contact

Program Manager:

Shireen Hamid Farhan | Ph.D. in Genetic engineering and Biotechnology | .

Email: sherenvet@uofallujah.edu.iq

Mobile no.:
