

# University of Al-Qadisiyah جامعة القادسية



*First Cycle – Bachelor's Degree (B.Sc.) –*  
*Biotechnology science* علوم تقانات احيائية بكالوريوس –



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### 1. Overview

This catalogue is about the courses (modules) given by the program of chemistry science 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.

نظرة عامة

يتناول هذا الدليل المواد الدراسية التي يقدمها برنامج التقانات الاحيائية الطبية للحصول على درجة بكالوريوس علوم تقانات احيائية. يقدم البرنامج (48) مادة دراسية , مع (6000) اجمالي ساعات حمل الطالب و 240 اجمالي وحدة اوروبية يعتمد تقديم المواد الدراسية على عملية بولونيا.

### 2. Undergraduate Courses 2023-2024

#### Module 1

Code	Course/Module Title	ECTS	Semester
BITM100	General biology	8	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	75	125
Description			
This section includes a description of the module, 100-150 words			

**Module 2**

Code	Course/Module Title	ECTS	Semester
BITM101	Cell biology	8	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	75	125
Description			
This section includes a description of the module, 100-150 words			

**Module 3**

Code	Course/Module Title	ECTS	Semester
BITM102	Biophysics	7	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	75	100
Description			
This section includes a description of the module, 100-150 words			

**Module 4**

Code	Course/Module Title	ECTS	Semester
QU04	Computer	3	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	30	45
Description			
This section includes a description of the module, 100-150 words			

**Module 5**

Code	Course/Module Title	ECTS	Semester
QU01	English language	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	18	32
Description			
This section includes a description of the module, 100-150 words			

**Module 6**

Code	Course/Module Title	ECTS	Semester
QU02	Human rights& democracy	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	18	32
Description			
This section includes a description of the module, 100-150 words			

**Module 7**

Code	Course/Module Title	ECTS	Semester
BITM106	General Chemistry	6	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module 8**

Code	Course/Module Title	ECTS	Semester
BITM107	Introduction to biotechnology	6	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module 9**

Code	Course/Module Title	ECTS	Semester
BTIM104	Biostatistics	5	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	50	75
Description			
This section includes a description of the module, 100-150 words			

**Module 10**

Code	Course/Module Title	ECTS	Semester
QU06	Arabic language	2	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	18	32
Description			
This section includes a description of the module, 100-150 words			

**Module 11**

Code	Course/Module Title	ECTS	Semester
QUBs05	Biosafety & risk Assessment	5	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	50	75
Description			
This section includes a description of the module, 100-150 words			

**Module 12**

Code	Course/Module Title	ECTS	Semester
BITM108	Animal tissue	6	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module 13**

Code	Course/Module Title	ECTS	Semester
BITM200	Microbiology	6	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module 14**

Code	Course/Module Title	ECTS	Semester
BITM 201	Molecular biology	6	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module 15**

Code	Course/Module Title	ECTS	Semester
BITM202	Biochemistry	5	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	50	75
Description			
This section includes a description of the module, 100-150 words			

**Module 16**

Code	Course/Module Title	ECTS	Semester
BP02	جرائم حزب البعث	2	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	18	32
Description			
This section includes a description of the module, 100-150 words			

**Module 17**

Code	Course/Module Title	ECTS	Semester
BITM204	Embryology	6	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module 18**

Code	Course/Module Title	ECTS	Semester
BITM205	Industrial microbiology	5	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	50	75
Description			
This section includes a description of the module, 100-150 words			

**Module 19**

Code	Course/Module Title	ECTS	Semester
BITM206	Immunology	6	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			



**Module20**

Code	Course/Module Title	ECTS	Semester
QU01	English language	2	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	18	32
Description			
This section includes a description of the module, 100-150 words			

**Module21**

Code	Course/Module Title	ECTS	Semester
BITM208	Genetics	6	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module22**

Code	Course/Module Title	ECTS	Semester
BITM209	physiology	6	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module23**

Code	Course/Module Title	ECTS	Semester
BITM210	Medical microbiology	7	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	75	100
Description			
This section includes a description of the module, 100-150 words			

**Module24**

Code	Course/Module Title	ECTS	Semester
QU04	Computer	3	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	30	45
Description			
This section includes a description of the module, 100-150 words			

**Module25**

Code	Course/Module Title	ECTS	Semester
BITM300	Environmental biotechnology	5	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	50	75
Description			
This section includes a description of the module, 100-150 words			

**Module26**

Code	Course/Module Title	ECTS	Semester
BITM301	Microbial genetics	6	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module27**

Code	Course/Module Title	ECTS	Semester
BITM302	Reproductive biotechnology	5	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	50	75
Description			
This section includes a description of the module, 100-150 words			

**Module28**

Code	Course/Module Title	ECTS	Semester
BITM303	Toxicology	6	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module29**

Code	Course/Module Title	ECTS	Semester
BITM304	Enzymology	6	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module30**

Code	Course/Module Title	ECTS	Semester
QU01	English language	2	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	18	32
Description			
This section includes a description of the module, 100-150 words			

**Module31**

Code	Course/Module Title	ECTS	Semester
BITM306	Medical biotechnology	5	6
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	50	75
Description			
This section includes a description of the module, 100-150 words			

**Module32**

Code	Course/Module Title	ECTS	Semester
BITM307	Gene vectors	5	6
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	50	75
Description			
This section includes a description of the module, 100-150 words			

**Module33**

Code	Course/Module Title	ECTS	Semester
BITM308	Animal tissue culture	5	6
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	50	75
Description			
This section includes a description of the module, 100-150 words			

**Module34**

Code	Course/Module Title	ECTS	Semester
BITM309	DNA typing	5	6
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	50	75
Description			
This section includes a description of the module, 100-150 words			

**Module35**

Code	Course/Module Title	ECTS	Semester
BITM310	Pharmaceutical biotechnology	5	6
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	50	75
Description			
This section includes a description of the module, 100-150 words			

**Module36**

Code	Course/Module Title	ECTS	Semester
BITM311	Virology	5	6
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	50	75
Description			
This section includes a description of the module, 100-150 words			

**Module37**

Code	Course/Module Title	ECTS	Semester
QU01	English language	2	7
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	18	32
Description			
This section includes a description of the module, 100-150 words			

**Module38**

Code	Course/Module Title	ECTS	Semester
BITM401	Secondary metabolites	6	7
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module39**

Code	Course/Module Title	ECTS	Semester
BITM402	Bioinformatics	6	7
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module40**

Code	Course/Module Title	ECTS	Semester
BITM403	Research project	4	7
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/1/0	30	70
Description			
This section includes a description of the module, 100-150 words			

**Module41**

Code	Course/Module Title	ECTS	Semester
BITM404	Genetic Engineering	6	7
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module42**

Code	Course/Module Title	ECTS	Semester
BITM405	Vaccines	6	7
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	60	90
Description			
This section includes a description of the module, 100-150 words			



**Module43**

Code	Course/Module Title	ECTS	Semester
BITM406	Project planning & analysis	4	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	30	70
Description			
This section includes a description of the module, 100-150 words			

**Module44**

Code	Course/Module Title	ECTS	Semester
BITM407	Immunochemistry	5	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	50	75
Description			
This section includes a description of the module, 100-150 words			

**Module45**

Code	Course/Module Title	ECTS	Semester
BITM408	Genomics & proteomics	6	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module46**

Code	Course/Module Title	ECTS	Semester
BITM409	Genetic & molecular diagnosis	6	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2/1/1/3	60	90
Description			
This section includes a description of the module, 100-150 words			

**Module47**

Code	Course/Module Title	ECTS	Semester
BITM410	Research project	4	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/1/3	30	70
Description			
This section includes a description of the module, 100-150 words			

**Module48**

Code	Course/Module Title	ECTS	Semester
BITM411	Immunotherapy	5	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/0/0/3	50	75
Description			
This section includes a description of the module, 100-150 words			

## Contact

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