

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2025

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

Program Vision

There is a College of Education for Pure Sciences to be one of the major higher education cooperation at the University of Basra in the field of modern scientific education through its scientific and administrative activities. It also works to provide a course of action for its students and professors to make them active and creative in serving the community in the areas of language education to serve it.

Program Mission

Working to prepare and graduate leading scientific and leadership competencies in the life sciences, sciences and literature, and to develop the balance of knowledge in the field of scientific research to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market.

Program Objectives

1. Embodying the vision, mission and goals of the University of Basra, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
2. Preparing specialized cadres capable of serving the community and preparing

for the preparation of future specializations.

3. The college seeks to conclude scientific and cultural cooperation agreements with the corresponding colleges and departments in the various colleges.

4. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.

5. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the fields of life sciences.

6. Focus on the educational and moral aspect of the student and instill a spirit of dedication, tolerance and commitment.

Program Accreditation

No

Other external influences

Is there a sponsor for the program?

No

Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	9	18	10%	
College Requirements	11	38	21.1%	
Department Requirements	23	124	68.9%	
Summer Training	Not applied			
Other				

* This can include notes whether the course is basic or optional.

Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
First 2024–2025		General biology	2	2
		Developmental Educational psychology	2	0
		Cell biology	2	2
		Computer 1	1	0
		Plant anatomy	2	2
		Geology	1	0
		General chemistry	1	2
		Fundamentals of Education	1	0
		English language	1	0
		Arabic language	1	0
		Democracy & human rights	1	0
		Biosafety & Security	1	0
Total			16	8
Second 2024–2025		Plant taxonomy	2	2
		English language	1	0
		Histology	2	2
		Leadership & educational administration	2	0
		Embryology	2	2
		Biochemistry	1	2
		Invertebrates	2	2
		Computer 2	1	0
		Arabic language	1	0
		Curriculums & school books	1	2
		Teaching Thinking	1	0
		Baath regime Crimes in Iraq	1	0

Total			17	12
Third 2024–2025		Genetics	2	2
		Comparative anatomy of chordate	2	2
		Entomology	2	2
		Ecology & pollution	2	2
		Teaching methods	1	2
		Algae & archegoniates	2	2
		Educational technology & its applications	1	2
		Counseling & psychological health	1	2
		Mycology	2	2
Total			15	18
Fourth 2024–2025		Parasitology	2	2
		Plant physiology	2	2
		Microbiology	2	2
		Animal physiology	2	2
		Elective	2	0
		Immunology	2	2
		Measurement & Evaluation	2	0
		Research project	0	2
		Practical education	1	2
		Action research	1	2
Total			16	16

Expected learning outcomes of the program	
Knowledge	
Informing students about the importance of biology and knowledge of its branches and some of its foundations.	
Skills	
Expanding students' information	
Ethics	
Developing students' abilities to understand scientific ideas, use microscopy and draw samples.	

Teaching and Learning Strategies

Teaching and learning strategies and methods adopted in the implementation of the program in general.

10. Evaluation methods

Implemented at all stages of the program in general.

Faculty					
Faculty Members					
Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	Lecturer

	Biology	Biology			staff	
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Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

The most important sources of information about the program

Some scientific books on the basics of biology

Program Development Plan

Study on the importance of biology and its main and secondary branches and a historical introduction to the evolution of biology.

Study some of the main fundamentals and concepts in the fields of biology, including classification, evolution and behavior.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2025/2024 first		General Biology	Mycology	My colo gy	Myc olog y	My colo gy	M yc olo gy	My colo gy	My colo gy	M yc olo gy	Myc olog y	Mycol ogy	Myc olog y	Myc olog y	Mycol ogy
		Plant Anatomy	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Cell Biology	Basic Dept.	√	√	√		√	√	√		√	√	√	
		General Chemistry	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Geology	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Fundamentals of Education	Basic college	√	√	√		√	√	√		√	√	√	
		Developmenta	Basic	√	√	√		√	√	√		√	√	√	

		I and Educational Psychology	college												
		Biosafety and Security	Basic Uni. Minis.	√	√	√		√	√	√		√	√	√	
		Computer I	Basic Uni. Minis.	√	√	√		√	√	√		√	√	√	
		Arabic Language	Basic Uni. Minis.	√	√	√		√	√	√		√	√	√	
		English Language	Basic Uni. Minis.	√	√	√		√	√	√		√	√	√	
		Democracy and Human Rights	Basic Uni. Minis.	√	√	√		√	√	√		√	√	√	
2024-2025 second		Invertebrates	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Plant Taxonomy	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Histology	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Embryology	Basic Dept.	√	√	√		√	√	√		√	√	√	

		Biochemistry	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Leadership and Educational Administration	Basic college	√	√	√		√	√	√		√	√	√	
		Curriculum s and School Books	Basic college	√	√	√		√	√	√		√	√	√	
		Teaching Thinking	Basic college	√	√	√		√	√	√		√	√	√	
		Computer II	Basic Uni. Minis.	√	√	√		√	√	√		√	√	√	
		Arabic Language	Basic Uni. Minis.	√	√	√		√	√	√		√	√	√	
		English Language	Basic Uni. Minis.	√	√	√		√	√	√		√	√	√	
		Baath Regime	Basic Uni. Minis.	√	√	√		√	√	√		√	√	√	

		Crimes in Iraq													
2024-2025 Third		Ecology and Pollution	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Entomology	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Comparative anatomy Chordate	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Algae and Archegoniates	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Genetics	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Mycology	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Counseling and Psychological Health	Basic college	√	√	√		√	√	√		√	√	√	
		Teaching Methods	Basic college	√	√	√		√	√	√		√	√	√	
		Educational	Basic	√	√	√		√	√	√		√	√	√	

		Technology and its Applications	College												
2024-2025 fourth		Parasitology	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Animal Physiology	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Plant Physiology	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Microbiology	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Immunology	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Elective	Basic Dept.												
		Research Project	Basic Dept.	√	√	√		√	√	√		√	√	√	
		Measurement and Evaluation	Basic college	√	√	√		√	√	√		√	√	√	
		Practical Education	Basic college	√	√	√		√	√	√		√	√	√	

		Action Research	Basic college	√	√	√		√	√	√		√	√	√	
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- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

**First
year**

Course Description Form

Course Name: Biology	
Course Code:	
Semester / Year: year	
Description Preparation Date: 2024	
Available Attendance Forms: attending	
Number of Credit Hours (Total) / Number of Units (Total)	
90 hours per year. 4 hours per week	
Course administrator's name (mention all, if more than one name)	
Name: Emad Hadi Mohsen Alaa Nadhim Hatem Mohammed Shakir Saleh Email:	
Course Objectives	
Course Objectives 1. Provide students with important information on the basics of biology. Teaching students to use a microscope and some laboratory supplies.
Teaching and Learning Strategies	

Strategy		Education Strategy Planning Collaborative Concept. Education Strategy "Brainstorming". The education strategy is a series of observations.			
Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction to Biology	biology	Explain the scientific material through lectures and give appropriate examples. 2. Assign students certain duties.	Daily and monthly exams and year-end exams.
2	2	Kinds of Biology			
2	2	Taxonomy of Organisms			
3	2	Evolution1			
4	2	Evolution of Animals			
5	2	Reproduction of plants			
6	2	Growth of plants			
7	2	Reproduction of Animals			
8	2	Reproduction of Humans			
9	2	Behavior of plants			
10	2	Behavior of Animals			
		Hormones of plants			
11	2	Hormones of Animals			
12	2	Ecology			
		Biological			
13	2	Envirinments			
14	2	Relationships among Organisms			
15	2				

. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc					
. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			Biology, Dr. Hussein Al-Saadi, 2010		
Main references (sources)			No		
Recommended books and references (scientific journals, reports...)			No		
Electronic References, Websites			No		

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Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

15. Program Vision

The College of Education for Pure Sciences seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its scientific, research and administrative activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving the community in the areas of preparing teachers to teach biology in schools. High school.

16. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in teaching biology in secondary schools in developing the balance of knowledge in the field of scientific research to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market.

17. Program Objectives

1. Embodying the vision, mission and goals of the University of Basra, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.
3. Spreading the culture of human diversity in society, transferring knowledge and skills, writing academic research, and creative scientific achievement through

student– and teaching–focused activities.

4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of education and learning.

5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.

6. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the fields of science.

Focusing on the educational and moral aspect of the student and instilling a spirit of dedication, tolerance and commitment.

18. Program Accreditation
No

19. Other external influences
No

20. Program Structure				
Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements		6		Basic course
College Requirements	Yes			
Department Requirements	Yes			
Summer Training	No			

Other				
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* This can include notes whether the course is basic or optional.

21. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2023–2024/ fourth class		Cell Biology	Theoretical 2	Practical 2

22. Expected learning outcomes of the program	
Knowledge	
Familiarizing students with scientific knowledge about cell science, cell theory, and the exact structure of cells of both prokaryotic and eukaryotic types.	
Skills	
Expanding and acquiring the skill of learning about everything related to cell science, its role and its relationship to other sciences.	
Ethics	
Developing students' abilities to participate in discussing the exact structure of cells and cellular organelles accurately and scientifically	

23. Teaching and Learning Strategies

- 1 – Explaining the scientific material through theoretical interpretation using teaching aids to display the material and detailed explanation of cell science with pictures, diagrams and shapes for the purpose of identifying the exact structure of cells by displaying them on the display screen and using PowerPoint ..
- 2– Discussing scientific ideas within the lecture and linking their axes in an applied manner
- 3– Developing students' abilities to think and conclude by asking questions related to the practical subject.
- 4– Students learn to think about the diversity of the structure of prokaryotic and eukaryotic cells.

24. Evaluation methods

Weekly, monthly, daily, mid-year and end-of-year exams.

25. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor	Biology	Biotechnology			1	
Assistant Professor	Biology	Biotechnology			1	

Professional Development

Mentoring new faculty members

Orienting new faculty members

Professional development of faculty members

Professional development for faculty members

26. Acceptance Criterion

27. The most important sources of information about the program
Cell Biology by Al-Rubaie, Abbas Hussein Mughir. 2012 .Publisher Dar Al Safaa. ISBN 9957247980, 9789957247980

28. Program Development Plan
Studying the theoretical and applied aspects and trying to think and conclude about Cell Biology in order to deepen understanding and increase awareness and enhance memory with all scientific information.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023-2024				X					X					X	

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

13. Course Name:	
Cell Biology	
14. Course Code:	
15. Semester / Year:	
Year	
16. Description Preparation Date:19/3/2024	
17.Available Attendance Forms:	
Attendance only	
18.Number of Credit Hours (Total) / Number of Units (Total)	
120 hour in year,2 hr. theoretical, 2 hr. practical	
19. Course administrator's name (mention all, if more than one name)	
Name: Ali Aboud Shareef Email: aliaboud547@gmail.com Name: Ghazwan Talib Nori AL-Jaber Email: ghazwan.nori@uobasrah.edu.iq	
20. Course Objectives	
Course Objective	1- Providing students with the skill of learning and interpretation of cell science 2- Expanding the skill of deduction, reasoning and scientific discussion of cell science. 3- Familiarity with different aspects in terms of precise cellular structure of the cell and its organelle comparing it with prokaryotic cells, and knowing the tenets of cell theory.
21. Teaching and Learning Strategies	
Strategy	1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series

22. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	2 hr. in week	1. Providing students with the skill of learning and understanding the different aspects of the concept of cell science 2- Teaching students about importance of cellular structures 3- Knowing the exact structure of the cell and its organelles and comparing them with prokaryotic cells with examples	* Definition of the cell, the structure of the cell, the form and size of the cell. * Cell chemistry, organic ingredients, organic ingredients * Installation of cellular membrane wall and membrane membrane, proposed development of membrane membrane membrane, functional activity, and transport and Constituent : Composition and function * Collegiate body (the entrepreneur and the job), the body of the case (the best and least job), the body of the minimum (the best and the least job) * The nucleus of the nucleus, the nucleus of the nucleus, the nucleus of the nucleus of the cell cycle. * Cell division by direct and indirect, division.	1- Explaining the scientific material through theoretical interpretation using teaching aids to display the components of cell science and detailed explanation on the images, charts, shapes and paths related to the scientific material by displaying it on the display screen and using PowerPoint 2- Discussing scientific ideas within the lecture and linking their subjects. 3- Developing students' ability to think and conclude by asking questions related to the practical subject.	Weekly, monthly, and daily, and written exams, and mid- and end-year exams
23. Course Evaluation					
Evaluation by Distribution is as follows: (17.5 theoretical + 7.5 practical) 25 marks for monthly and daily exams for the first semester. (17.5 theoretical + 7.5 practical) 25 marks for monthly and daily exams for the second semester. 50 marks for final exams.					
24. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					

Main references (sources)	
Recommended books and references (scientific journals, reports...)	<p>Cell Biology, (2021)</p> <p>Hussein Alrubaie, Abbas</p> <p>isbn = 978-9957-24-798-0</p>
Electronic References, Websites	

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Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

29. Program Vision

Program vision is written here as stated in the university's catalogue and website.

30. Program Mission

Program mission is written here as stated in the university's catalogue and website.

31. Program Objectives

General statements describing what the program or institution intends to achieve.

32. Program Accreditation

Not available

33. Other external influences

Not available

34. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	90	90		
College Requirements	Yes			
Department	Yes			

Requirements				
Summer Training	Not available			
Other				

* This can include notes whether the course is basic or optional.

35. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2023–2024 1st	Plant Anatomy		theoretical	practical

36. Expected learning outcomes of the program	
Knowledge: Students must be familiar with plant external structures and their internal anatomy with the types and tissues.	
Skills: Students must get the experience of diagnosing plant parts practically and using the compound light microscope to diagnose the types of tissues.	
Ethics	
Learning Outcomes 4	Students must have the ability to share their opinions about the benefits of each plant part and to find the relationship between its structure and functions.

37. Teaching and Learning Strategies
1–Explaining the concepts through the reactive lectures and discussion. 2–Feedback methods at the end of each lecture. 3–giving examples of plants living in their environment.

38. Evaluation methods

Monthly and daily Theoretical and practical examinations, mid term and final examination

39. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
1-Prof. doctor	Botany	Plant physiology.			Yes	
2-lecturer	Botany	Plant anatomy.			Yes	
					Yes	

Professional Development

Mentoring new faculty members

.

Professional development of faculty members

40. Acceptance Criterion

41. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023-2024		Plant anatomy	Basic												

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

25. Course Name:					
Plant anatomy					
26. Course Code:					
27. Semester / Year:					
Year					
28. Description Preparation Date:					
: 14/ 02/ 2024					
29. Available Attendance Forms:					
Exists only					
30. Number of Credit Hours (Total) / Number of Units (Total)					
90 hours yearly, 3 hours weekly.					
31. Course administrator's name (mention all, if more than one name)					
Name: Prof. Dr. Luma H. AbdulQagir					
Email: Luma.abdulqadir@uobasrah.edu.iq					
32. Course Objectives					
Knowledge: Students must be familiar with plant external structures and their internal anatomy with types and tissues.					
33. Teaching and Learning Strategies					
Strategy		Reactive learning Brainstorming . discussion.			
34. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
Each week	3	skills: Students must get the experience of	Plant anatomy	Reactive learning Brainstorming .discussion.	

		diagnosing plant ts practically and ng the compound ght microscope to diagnose the types of tissues			
35. Course Evaluation					
35 marks theoretical exam., 15 practical exam. And 50 marks for final exam.					
36. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Plant Anatomy 2nd Edition by K. Esau					
Plant Anatomy: A Concept-Based Approach to the Structure of Seed Plants 1st ed. 2018.					
Electronic References, Websites			HYPERLINK "https://www.researchgate.r https://www.researchgate.net/		

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2025

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

42. Program Vision

Program vision is written here as stated in the university's catalogue and website.

43. Program Mission

Program mission is written here as stated in the university's catalogue and website.

44. Program Objectives

General statements describing what the program or institution intends to achieve.

45. Program Accreditation

Not available

46. Other external influences

Not available

47. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	24	24		
College Requirements	Yes			

Department Requirements	Yes			
Summer Training	Not available			
Other				

* This can include notes whether the course is basic or optional.

48. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2023–2024/1st	English Language		theoretical	

49. Expected learning outcomes of the program	
Knowledge: Students must be mind–refreshed in English language.	
Skills: Students must get the experience of the English tenses and an English biology terminology .	
Ethics	
Learning Outcomes 4	Students must have the ability to share their opinions about the benefits of each tense and to find the relationship between its structure and functions.

50. Teaching and Learning Strategies
1–Explaining the concepts through the reactive lectures and discussion.
2–Feedback methods at the end of each lecture.
3–giving examples of terms and verbs.

51. Evaluation methods
Monthly and daily Theoretical examinations, mid term and final examination

52. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
1-Assist. Prof. doctor	Botany	Plant physiology.			Yes	

Professional Development
Mentoring new faculty members
.
Professional development of faculty members

53. Acceptance Criterion

54. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023-2024 1 st		English Language	Basic	✓				✓				✓			

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

37. Course Name:					
English Language					
38. Course Code:					
39. Semester / Year:					
Year					
40. Description Preparation Date:					
: 14/ 02/ 2024					
41. Available Attendance Forms:					
Exists only					
42. Number of Credit Hours (Total) / Number of Units (Total)					
24 hours yearly, 1 hours weekly.					
43. Course administrator's name (mention all, if more than one name)					
Name: Assist. Prof. Dr. Murtadha H. Fayadh Email: murtadha.fayadh@uobasrah.edu.iq					
44. Course Objectives					
Knowledge: Students must be mind-refreshed in English language.					
45. Teaching and Learning Strategies					
Strategy	Reactive learning Brainstorming . discussion.				
46. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
Each week	1	Skills: Students must get the experience of the English tenses and an English biology terminology	English language	Reactive learning Brainstorming .discussion.	Daily ,monthly and final exams
47. Course Evaluation					
50 marks theoretical exam. And 50 marks for final exam.					

48. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Electronic References, Websites	

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
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Academic Program and Course Description Guide

2025

Introduction:

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academic programs and course description to ensure the proper functioning of the educational process.

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Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2023-2024/ First st.		Computer	theoretical	practical
			1	2

8. Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	<p>1- Understanding Windows 10 Interface: Participants should become familiar with the overall layout, features, and functionalities of the Windows 10 operating system, including the Start Menu, Taskbar, Action Center, and Settings app.</p> <p>2- Navigating File Explorer: Learners should be able to navigate through the File Explorer efficiently, manage files and folders, understand file organization principles, and perform basic file operations like copying, moving, renaming, and deleting.</p> <p>3- Customizing Settings: Participants should learn how to customize various settings in Windows 10 to suit their preferences and needs, including personalization options, privacy settings, display settings, and system configurations.</p>
Skills	
Learning Outcomes 2	<p>Operating System Navigation, File Management, Application Management, Customization, Productivity Tools Proficiency, Security Awareness and Maintenance, Troubleshooting Skills, Backup and Recovery, Collaboration and Communication</p> <p>By achieving these learning outcome skills, participants would be equipped with the necessary knowledge and abilities to effectively use and manage Windows 10 in various personal and professional contexts.</p>

Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Learning Outcomes 4	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

9. Teaching and Learning Strategies

Teaching and learning strategies for a Windows 10 program designed to engage participants effectively and promote active learning. Strategies that can be employed:

Hands-on Practice , Demonstrations, Interactive Workshops, Visual Aids, Real-world Scenarios, Self-paced Learning, Peer Teaching and Problem-based Learning.

10. Evaluation methods

Weekly, monthly, daily, mid and final examinations.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	Lecturer
	Biology	Immunology		Staff	lecturer

Professional Development

Mentoring new faculty members

Professional development of faculty members

12. Acceptance Criterion

13. The most important sources of information about the program
Windows 10 Step by Step Second Edition. Joan Lambert 2018

14. Program Development Plan
we have created a structured and effective Windows 10 training program that meets the needs of participants and helps them develop the necessary skills and knowledge to effectively use the operating system.

Course Description Form

1. Course Name:	
Computer	
2. Course Code:	
3. Semester / Year:	
Annual 2023–2024	
4. Description Preparation Date:	
17/03/2024	
5. Available Attendance Forms:	
Face-to- Face only	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90 hour a year 30 hour	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Luay Hussein Ali Email: luay.alkanan@uobasrah.edu.iq	
8. Course Objectives	
Course Objectives	<p>Teaching Windows 10 can have several goals, depending on the context and the needs of the learners. Here are some common goals:</p> <ul style="list-style-type: none"> • Basic Proficiency: The primary goal is often to ensure that learners are comfortable using Windows 10 as their operating system. This includes understanding the interface, navigating the Start menu, using basic applications like File Explorer, and managing files and folders. • Productivity Enhancement: Teaching Windows 10 can aim to improve productivity by introducing learners to time-saving features and shortcuts. This might include techniques for multitasking with virtual desktops, utilizing the taskbar

	effectively, or employing keyboard shortcuts.
	<ul style="list-style-type: none"> • Customization: Windows 10 offers a high degree of customization, allowing users to tailor the interface to their preferences. Teaching this aspect involves demonstrating how to personalize settings, customize the Start menu, and configure notifications to suit individual needs.

9. Teaching and Learning Strategies

Strategy	1-Cooperative Concept Mapping Teaching Strategy. 2-Brainstorming Teaching Strategy. 3-Observation Chain Teaching Strategy.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
	3	Deep understanding of the user interface and operating concept: Students will gain a fundamental understanding of how to navigate and use the interface and basic tools in Windows 10. Management and organization skills: Learning Windows 10 will enable students to effectively manage files and folders, organize files, search for	computer	1- Explaining the scientific material by clarifying the different properties, settings, and the importance of each. 2- Identifying the forms of elements and the method of accessing them. 3- Understanding the appropriate steps to accomplish a task.	Weekly, monthly, daily, mid and final examinations.

		<p>files, and perform copy, paste, and delete operations.</p> <p>Knowledge of basic applications and services: Students can learn how to use basic applications such as web browsers, email, and Office applications.</p> <p>Security and protection: Students will acquire knowledge of online security basics and personal data protection, and use built-in security tools in Windows 10 such as Windows Defender.</p> <p>Productivity improvement: Students will acquire skills to increase productivity using features and tools in Windows 10 such as quick search, task management, and utilizing installed applications.</p> <p>Communication and collaboration: Students can</p>			
--	--	---	--	--	--

		<p>learn how to use communication and collaboration features in Windows 10, such as sharing files online and working on documents collaboratively.</p> <p>Customization and adaptation: Students will learn how to customize Windows 10 settings to meet their individual needs and preferences, including changing backgrounds, organizing the taskbar, and customizing the "Start" menu.</p> <p>Those are some potential outcomes that individuals can achieve after successfully completing a Windows 10 learning course.</p>			
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11. Course Evaluation

The distribution is as follows: 35 (17.5 theoretical + 7.5 practical) marks for monthly and daily theoretical exams for the first semester. 35 marks for monthly and daily exams for the second semester. 50 (35 theoretical + 15 practical) marks for final exams.

12. Learning and Teaching Resources

Required textbooks (particular books, if any)	
Main references (sources)	Windows 10 Step by Step Second Edition. Joan Lambert 2018
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Second year

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
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Academic Program and Course Description Guide

2025

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Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

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Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

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Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

55. Program Vision

The College of Education for Pure Sciences seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its scientific, research and administrative activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving society in the fields of teaching and teaching pure sciences.

56. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in the life sciences and sciences and to develop the balance of knowledge in the field of scientific research to serve the local, regional, and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market...

57. Program Objectives

1. Embodying the vision, mission, and goals of the University of Basrah, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.
3. Spreading the culture of human diversity in society, transferring knowledge and linguistic skills, writing academic research, and creative scientific achievement through student- and teaching-focused activities.

4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of teaching, learning and translation.

5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.

6. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the fields of languages, literature and translation.

Focusing on the educational and moral aspect of the student and instilling a spirit of dedication, tolerance and commitment.

58. Program Accreditation

Nothing

59. Other external influences

Nothing

60. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements		6 unit		Basic course
College Requirements	Yes			
Department Requirements	yes			
Summer Training	nothing			

Other				
--------------	--	--	--	--

* This can include notes whether the course is basic or optional.

61. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2023/2024		Invertebrates	theoretical	practical
			2	2

62. Expected learning outcomes of the program	
Knowledge	
Informing students of the scientific knowledge of morphology, anatomy, physiology of the invertebrates from protozoa to Echinodermata; phylogenetic relationships; ecology and behavior; demonstrations and practical exercises included.	Learning Outcomes Statement 1
Skills	
Providing the students with skills in classifying invertebrate animals based on their morphological characteristics and evolutionary relationships among them, and the development of useful and avoidance of harmful ones.	Learning Outcomes Statement 2
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Developing students' abilities to participate in discussing morphology, physiology, taxonomy, ecology, and their	Learning Outcomes Statement 4

relationship with humans and their role in the ecosystem in which they live as well as the parasitic diseases caused by these animals, their effects, and how to prevent them. and harms of invertebrates	
Learning Outcomes 5	Learning Outcomes Statement 5

63. Teaching and Learning Strategies

- 1– Lecture by power point presentation
- 2– Discussion in class
- 3– Laboratory with specimens
- 4– Suggested reading.

64. Evaluation methods

Student achievement is measured and evaluated by: Daily, weekly, monthly, mid–year and end–of–year exams.

65. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Prof.	Biology	Invertebrates			2	
Lecturer	Biology	Invertebrates			1	

Professional Development

Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

66. Acceptance Criterion
(Setting regulations related to enrollment in the college or institute, whether central admission or others)

67. The most important sources of information about the program
Kotpal, R.L. (2016)Modern Text Book of Zoology Invertebrates (11 th ed)New Delhi, India.

68. Program Development Plan
Studying the theoretical and applied aspects and trying to think and conclude about the science of parasitology and parasitological diseases to deepen understanding and increase awareness and enhance memory with all scientific information.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
(2 nd) stage 2023/2024		Invertebrates	Basic	—					—					—	

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

49.	Course Name:		
		Invertebrates	
50.	Course Code:		
51.	Semester / Year:		
		Annual	
52.	Description Preparation Date:		
		23/2/2024	
53.	Available Attendance Forms:		
		Attendance	
54.	Number of Credit Hours (Total) / Number of Units (Total)		
		120 hours annually / 2 hr. theoretical / 2hr. practical	
55.	Course administrator's name (mention all, if more than one name)		
		Name: Dr. Sabeeh Helial Jaid Email: sabeeh.jaid@ uobasrah.edu.iq Dr. Murtatha Yousif Mahdi	
56.	Course Objectives		
	Course Objectives After completing this course, the student should be able to 1-Classify each invertebrates phylum to species level 2-Explain the external and internal morphology, the structure and function of various organ systems, and the life cycle and behavior of each invertebrate. 3 – He can give examples of evert class, order, family, and genus of every invertebrate phylum. 4-Explan phylogenetic relationships of each invertebrate phylum.	<ul style="list-style-type: none"> • 	
57.	Teaching and Learning Strategies		
Strategy	1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series		

58. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	The student gets to know the relationships between organisms and what is meant by invertebrate, their methods of reproduction.	General introduction to invertebrates; their methods of reproduction, and the association between organisms	lecture	Weekly, monthly, daily, and written exams, and the mid- and end-of-year exams.
2 +3	4 +4	The student gets to know the kingdoms of life, classification systems and learns how to write the scientific name of living organisms.	Kingdoms of life, classification systems, and how to write the scientific name.	Lecture	
4+5+6	4+4+4	The student will learn the characteristics of protozoa and how to classify them, with studying examples of each class.	Phylum: Protozoa	Lecture	
7+8	4+4	The student will be known the characteristics of porifera and how to classify them, with studying examples of each class.	Phylum: Porifera	Lecture	
9+10+11	4+4+4	The student will learn the characteristics of cnidaria and how to classify them, with studying examples of each class.	Phylum: Cnidaria	Lecture	
12+13+14	4+4+4	The student will be known the characteristics of platyhelminths and how to classify them, with studying examples of each class.	Phylum: Platyhelminths	Lecture	
15+16+17	4+4+4	The student gets to know the characteristics of Aschelminths phyla and how to classify them, by studying examples of each phylum.	Phylum: Aschelminths	Lecture	
18+19+20+21	4+4+4+4	The students are introduced to the phenomenon metamerism and the general characteristics of the annelid phylum and how it is classified into its classes by studying examples of each class.	Phylum: Annelida	Lecture	
22	4	Introducing students to the general characteristics of animals in this phylum and explaining their evolutionary importance as a link between annelid worms and arthropods.	Phylum: Onychophora	Lecture	

23+24+25+26	4+4+4+4	Introducing students to the general characteristics of the phylum, their importance, how they are classified into classes, as well as their distribution and diversity, and reasons for their success, with studying examples of each class.	Phylum: Arthropoda	Lecture	
27+28	4+4	The student gets to know the general characteristics of the phylum mollusca and how to classify them with studying examples of each class.	Phylum: Mollusca	Lecture	
29+30	4+4	The student gets to know the general characteristics of the phylum echinodermata and how to classify them with studying examples of each class.	Phylum: Echinodermata	Lecture	

59. Course Evaluation

Distribution is as follows: (17.5 theoretical + 7.5 practical) 25 marks for monthly and daily exams for the first semester. (17.5 theoretical + 7.5 practical) 25 marks for monthly and daily exams for the second semester. 50 marks for final exams.

60. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Invertebrate/ Murad, B.Murad,(1986) University of Baghdad.
Main references (sources)	Kotpal, R.L. (2016) Modern Textbook of Zoology Invertebrates (11 th ed) New Delhi, India
Recommended books and references (scientific journals, reports...)	Kozloff, Invertebrates.USA.Sauners CollegePublishing,1990
Electronic References, Websites	The student is encouraged to use the internet and scientific websites to obtain information about Invertebrate.

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
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Academic Program and Course Description Guide

2025

Introduction:

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Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

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Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

69. Program Vision

The College of Education for Pure Sciences seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its scientific, research and administrative activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving the community in the fields of teaching biology.

70. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in the field of biology and to develop the balance of knowledge in the field of scientific research to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market.

71. Program Objectives

1. Embodying the vision, mission and goals of the University of Basra, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.
3. Spreading the culture of human diversity in society, transferring scientific knowledge and skills, writing academic research, and creative scientific

achievement through student– and teaching–focused activities.

4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of education and learning.

5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.

6. Paying attention to intellectual and scientific construction through openness to the experiences of other countries in the fields of life sciences.

Focusing on the educational and moral aspect of the student and instilling a spirit of dedication, tolerance and commitment.

72. Program Accreditation

Does the program have program accreditation? And from which agency? nothing

73. Other external influences

Is there a sponsor for the program?nothing

74. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	90	90		Basic course
College Requirements	yes			
Department Requirements	yes			
Summer Training	nothing			

Other	nothing			
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* This can include notes whether the course is basic or optional.

75. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
Second year 2023/2024		Embryology	theoretical	practical

76. Expected learning outcomes of the program	
Knowledge	
Informing students about the importance of embryology	Learning Outcomes Statement 1
Skills	
Expanding reading and research skills in the field of embryology	Learning Outcomes Statement 2
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Linking life matters with scientific material in embryology	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

77. Teaching and Learning Strategies
<p>1–Explaining the scientific material through lectures using PowerPoint, the blackboard, and other educational means.</p> <p>2– Write a review paper for each topic that summarizes the most important ideas presented during the lectures</p> <p>3– Linking ideas with students’ opinions and discussing them</p>

78. Evaluation methods

Weekly, monthly, daily exams and the end of the year exam.

79. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Assistant Professor	Biology	Histopathology			Staff	

Professional Development
Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

80. Acceptance Criterion
(Setting regulations related to enrollment in the college or institute, whether central admission or others)

81. The most important sources of information about the program
1- Embryology – Kawakib Al-Mukhtar and others
2-Langman medical embryology-T.W.Sadler
82. Program Development Plan
1- Continuously updating the curriculum through modern embryology sources such

as electronic books

2– Paying attention to the practical aspect by examining and studying microscopic slides

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

61. Course Name:					
Embryology					
62. Course Code:					
63. Semester / Year:					
Yearly					
64. Description Preparation Date:					
2024-4-22					
65. Available Attendance Forms:					
Attendance only					
66. Number of Credit Hours (Total) / Number of Units (Total)					
120hrs. yearly, 2hrs theoretical, 2hrs practical weekly					
67. Course administrator's name (mention all, if more than one name)					
Name: A.P.Dr. Abbas Abdulkareem Abbas Email: abbas.abbas@uobasrah.edu.iq Name: L. Dr.munera Abdulla Ibrahim Email: munera.ibrahim@uobasrah.edu.iq					
68. Course Objectives					
1- Understand the basics of embryology				•	
2- Studying the embryonic development of different animals				•	
3- Study of the development of the human embryo and Congenital malformations				•	
69. Teaching and Learning Strategies					
Strategy		1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series			
70. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject	Learning method	Evaluation method

			name		
1	4hrs	1- Providing	embryol	Explaining	Weekly,
2	4hrs	students		the scientif	monthly,
3	4hrs	with		material by	daily,
4	4hrs	the skill of		giving	Written
5	4hrs	understandin		theoretical	exams,
6	4hrs	and analyzing		lectures usi	and the
7	4hrs	information		PowerPoin	end-of
8	4hrs	related		and availab	-year
9	4hrs	to embryology		educational	exam.
10	4hrs	2- Informing		tools, and	
11	4hrs	students		giving	
12	4hrs	about the		practical	
13	4hrs	embryonic		lectures	
14	4hrs	formation		by examini	
15	4hrs	of spearfish		microscopi	
Vacatio		, amphibians,		slides unde	
16	4hrs	birds, and		an optical	
17	4hrs	humans		microscope	
18	4hrs			2- Write a	
19	4hrs			review	
19	4hrs			paper	
20	4hrs			for each	
21	4hrs			topic and	
22	4hrs			the ideas	
23	4hrs			presented	
24	4hrs			during	
25	4hrs			the lectures	
26	4hrs			3- Linking	
27	4hrs			ideas with	
28	4hrs			students	
29	4hrs			' opinions	
	4hrs			and discuss	
	4hrs			them	

71. Course Evaluation

Distribution is as follows: 25 marks for monthly and daily exams for the first semester. 25 marks for monthly and daily exams for the second semester. 50 marks for final exams

72. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- Embryology – Kawakib Al-Mukhtar and others 2-Langman medical embryology-T.W.Sadler
Main references (sources)	1- Embryology – Kawakib Al-Mukhtar and others 2-Langman medical embryology-T.W.Sadler
Recommended books and references (scientific journals, reports...)	1-Comparative descriptive embryology: Saleh Al-Karim and Fatima Al-Qudsi 2-High yield embryology : Ronald W. Duck

	3-The developing human : Moore and Persaud
Electronic References, Websites	Internet sites for embryology lectures at local & international universities and electronic embryology books

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Academic Program and Course Description Guide

2025

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Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

83. Program Vision

The College of Education for Pure Sciences seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its scientific, research and professional activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving society in the fields of education.

84. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in the professional field is teaching in schools of education and developing the balance of knowledge in the field of scientific research to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market.

85. Program Objectives

1. Embodying the vision, mission and goals of the University of Basra, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
2. 2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.
3. 3. Spreading the culture of human diversity in society, transferring educational knowledge and skills, writing academic research, and creative

scientific achievement through student– and teaching–focused activities.

4. 4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of education and learning.
5. 5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.
6. 6. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the areas of teaching methods
7. Focusing on the educational and moral aspect of the student and instilling a spirit of dedication, tolerance and commitment.

86. Program Accreditation

Does the program have program accreditation? And from which agency?

87. Other external influences

Is there a sponsor for the program?

88. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				

College Requirements				
Department Requirements				
Summer Training				
Other				

* This can include notes whether the course is basic or optional.

89. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2023–2024		plant taxonomy	theoretical	practical

90. Expected learning outcomes of the program	
Knowledge	
Informing students about the importance of plants, how to identify them through their morphological characteristics, knowing their taxonomic affiliation, identifying plant structures with high taxonomic value that are superior to them in isolating species, genera and plant families, and emphasizing the Iraqi plant wealth represented by food security plants and aquatic and medicinal plants,	Learning Outcomes Statement 1
Skills	
Training students to identify plants by the type of leaves, stems, flowers, fruits, and seeds	Learning Outcomes Statement 2

Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Developing students' abilities to make practical inferences and discover plants through the botanical encyclopedia, taxonomic keys, and direct comparison with herbarium specimens.	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

91. Teaching and Learning Strategies

- Explaining the scientific material and preparing a presentation that includes all the details, scientific terminology, pictures, illustrations, and diagram that summarize the material
- 2– Write a review paper for each plant family summarizing its most important taxonomic characteristics that were explained during the lectures
- 3– Asking students questions about the types of plants studied and comparing them to the plant families studied in the previous lecture.

92. Evaluation methods

Weekly, monthly, daily exams and the end of the year exam.

93. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	Lecturer

	Botany	plant taxonomy				
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Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

94. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

95. The most important sources of information about the program

- 1– Book on the taxonomy of seed plants by Youssef Al-Kateb
- 2– Plant taxonomy Book – Ali Hussein Al-Moussawi

96. Program Development Plan

A comparative study between botanical description and botanical terminology with plants in nature

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023- 2024		plant taxonmy	Basic	A1				B1				C1			

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

73. Course Name:					
plant Taxonomy					
74. Course Code:					
75. Semester / Year:					
2023-2024					
76. Description Preparation Date:					
12\3\2024					
77. Available Attendance Forms:					
presence only					
78. Number of Credit Hours (Total) / Number of Units (Total)					
90 hours annually. 3 hours per week					
79. Course administrator's name (mention all, if more than one name)					
Name: Amal Ali Yaseen ALHaseen Email: amal.yaseen@uobasrah.edu.iq					
80. Course Objectives					
<p>Informing students about the importance of plants, how to identify them through their morphological characteristics, knowing their taxonomic affiliation, identifying plant structures with high taxonomic value that are superior to them in isolating species, genera and plant families, and emphasizing Iraqi plant wealth represented by food security plants and aquatic and medicinal plants,</p> <ul style="list-style-type: none"> • • • 					
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Strategy		1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series			
82. Course Structure					
Week	Hours	Required Learning	Unit or subject name	Learning method	Evaluation method

		Outcomes			
1	2	plant Taxonom	plant Taxonom	- Explaini	A duty
2	2			the scienti	collect
3		Identificatio		material a	number
4		n		preparing	plant pa
5		plant		presentation	and class
6	4	Taxonomy		that includ	themWeekly
7		Systems		all the deta	monthly, da
8	4	Botanical		scientific	written exar
9		nomenclatur		terminology	and the er
10	4	e		pictures,	of-year exan
11	4	Roots and		illustrations	
12		their		and diagra	
13		mutations		that	
14		Stems and		summarize	
15		their		the material	
16	4	mutation			
17		Flowers			
18		(corolla - calyx - stamens - pistils). The fruits Seeds, methods of transportati on and classification Pollen Plant pollination cafes Primitive and evolved traits in plants Iraqi plant families, their			

		distribution and importance			
83. Course Evaluation					
Distribution is as follows:: 35 theoretical + 15 practical = 50 Final quest 35 theoretical + 15 practical = 50					
84. Learning and Teaching Resources					
Required textbooks (curricular books any)			Plant taxonomy / Dr. Ali Hussein Al-Moussawi 1987 Download link: https://goo.gl/L82Cnq		
Main references (sources)			Book of Taxonomy of seed plants, Yusef Manso Al-Kateb		
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites			https://faculty.uobasrah.edu.iq/faculty/1927/teaching		

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Scientific Supervision and Scientific Evaluation Apparatus
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Academic Program and Course Description Guide

2025

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Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

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Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

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Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

97. Program Vision

The College of Education for Pure Science always attempt to be one of the promising Higher Education institutions at the University of Basrah, in the field of future education and the scientific research through its scientific, research and administrative activity. Moreover, working on supplying useful route for the students and teachers to make them useful and inventive in the society in the field of chemistry science.

98. Program Mission

Work on manage and graduate the efficient students with highly management and scientific in chemistry, and develop the aptitude in the scientific research that bring benefit to the society and the country.

99. Program Objectives

- 1- Embodying the vision, mission and goals of the University of Basra, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
- 2- Preparing specialized students capable of serving the community and organizing for the preparation of future specializations.
- 3- Spreading the culture of scientific and cultural diversity in society, transferring scientific knowledge and skills, writing academic research, and creative scientific achievement through student- and teaching-focused activities.
- 4- The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and departments in different colleges to achieve best practices in the fields of education, learning, and scientific creativity.
- 5- Focusing on the educational and moral aspects of all college members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.

- 6- Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the fields of science, laboratories and research achievements.
- 7- Focusing on the educational and moral aspect of the student and spreading the spirit of

100. Program Accreditation

-

101. Other external influences

-

102. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements				
Department Requirements				
Summer Training				
Other				

* This can include notes whether the course is basic or optional.

103. Program Description

Year/Level	Course	Course	Credit Hours
------------	--------	--------	--------------

	Code	Name		
2023-2024/ 2 nd stage		Biochemistry	theoretical	practical

104. Expected learning outcomes of the program

Knowledge	
Introducing the students to the chemistry of large molecules in human body (carbohydrates, lipids, proteins, nucleic acid, and enzymes). Study these molecules will raise the knowledge of medicinal importance in how control and use them. Chemical structures, reactions, and classifications are main topics in understand those molecules.	1- The student's knowledge of the biochemistry of (carbohydrates, lipids, proteins, nucleic acid, and enzymes). 2- Knowledge the student to medicinal importance of (carbohydrates, lipids, proteins, nucleic acid, vitamins and enzymes).
Skills	
1- The student must learning the medicinal importance of (carbohydrates, lipids, proteins, nucleic acid, and enzymes) and their roles in human body. 2- Distinguish between (carbohydrates, lipids, proteins, nucleic acid, and enzymes) based on Chemical structures, reactions, and classifications 3- Distinguishing between the types of large molecules in human body 4- The student receives a set of practical experiments in the laboratory to learn methods for detection of presence and absent with identification the quantity of molecules in natural food, fruits, etc..	
Ethics	
Expanding students' awareness of chemistry and the ability to share ideas and present them to middle school students in the	

future	
--------	--

105. Teaching and Learning Strategies

- 1- Explaining the scientific material using PowerPoint and the blackboard, and giving information for each group in the periodic table.
- 2- Write a review paper for each element present in the group, including its presence in nature, methods of preparation and interactions.
- 3- Linking theoretical information with practical skills.

106. Evaluation methods

- 1- Oral exams
- 2- Monthly exams
- 3- Annual exams

107. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Doctor	Chemistry	Biochemistry			Staff	

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional

development, etc.

108. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

109. The most important sources of information about the program

- 1- Lynne B. Jorde, Ph.D. **Biochemistry Notes**. 2002 Kaplan,
- 2- Robert J. Robbins. **Molecular Biology Fundamentals**. 1994, 1995 Robert Robbins, Johns Hopkins University.
- 3- Integrated DNA Technologies. **The Polymerase Chain Reaction**. 2005 and 2011.
- 4- Stephen C. Blacklow, Ronald T. Raines T. Wendell A. Lim, Philip D. Zamore, and Jeremy R. Knowles. **Triosephosphate Isomerase Catalysis Is Diffusion Controlled**. *Biochemistry* 1988, 27, 1158-1167
- 5- Leggio, A.; Gioia, M.L.D.; Perri, F.; Liguori, A. **Tetrahedron**, **2007**, 63, 8164-8173.
- 6- Greene, T.W.; Wuts, P.G.M. **Protecting groups in organic synthesis**, Fourth edition, Wiley-interscience, New York, **2006**.
- 7- Rothman, D.M.; Vazquez, M.E.; Vogel, E.M.; Imperiali, B., *Org. Lett.*, **2002**, 4, 2865-2868
- 8- Chan, W.; White, P. **Fmoc Solid Phase Peptide Synthesis**, Oxford, New York, **2000**.
- 9- Keith ó Proinsias. **Short Peptide Synthesis**. Lecture, 8th February 2010.
10. Kates S. A., AlbericioF. **Solid--Phase Synthesis**. A practical guide, Marcel Dekker, Inc., , 2000(86/VK 5500 K19)

1- خولة احمد ال فليح (مدخل الى الكيمياء الحياتية).

2- عباس دواس المالكي (الكيمياء الحياتية).

3- قيس عطوان الكيلاني (الكيمياء الحيوية).

110. Program Development Plan

Studying the modern of large molecules and their roles, biological functions, chemical structures, sources, and classifications. Developing the curriculum according to modern foundations.

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Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

85. Course Name:	
Biochemistry	
86. Course Code:	
87. Semester / Year:	
Year/ 2 rd stage	
88. Description Preparation Date:	
22/2/2023	
89. Available Attendance Forms:	
Available	
90. Number of Credit Hours (Total) / Number of Units (Total)	
4 hours per week (2 hours theoretical, and 2 hours laboratory)	
91. Course administrator's name (mention all, if more than one name)	
Name: Dr. Ala'a A. Hussein Email: alaa.hussain@uobasrah.edu.iq	
92. Course Objectives	
Course Objectives	Carbohydrates Lipids Amino acids, peptides, and proteins Enzymes Vitamins Nucleic acids
93. Teaching and Learning Strategies	
Strategy	The teaching and learning strategy based on two tools, Power point presentation and white board. Which can provide a sufficient information and knowledge to postgraduate students, and achieve the target of biochemistry science.

94. Course Structure					
First semester					
Hours	Week	IOLs	Topic title	egntisa T mestem	Annemess mestem
4	1	Introduction to carbohydrates	Carbohydrates	Theoretical	Quick exams
4	2	Chemical structures, types, functions	Monocarbohydrate	Theoretical	Quick exams
4	3	Chemical reactions	Monocarbohydrates	Theoretical	Quick exams
4	4	Chemical structures, types, functions	Oligocarbohydrates	Theoretical	Quick exams
4		Chemical structures, types, functions	Polycarbohydrates	Theoretical	Quick exams
4	5	Introduction to lipids	Lipids	Theoretical	Quick exams
4	7	Types of lipids and their reactions	Classification of lipids	Theoretical	Quick exams
4	4	Types of lipids and their reactions	Classification of lipids	Theoretical	Quick exams
4	9	Types of lipids and their reactions	Classification of lipids	Theoretical	Quick exams
4	11	Types of lipids and their reactions	Classification of lipids	Theoretical	Quick exams
4	10	Introduction to amino acids and chemical structures, functions, reactions	Amino acids	Theoretical	Quick exams
4		Introduction to peptides ,chemical structures,	Peptides	Theoretical	Quick exams

		functions, synthesis methods			
4		Introduction to proteins, classifications and functions	Proteins	Theoretical	Quick exams
4	17	Types and functions	Structures of protein	Theoretical	Quick exams
Second semester					
4	18	Introduction to vitamins, functions	Vitamins	Theoretical	Quick exams
4		Classification, chemical structures, functions	Soluble vitamins in water	Theoretical	Quick exams
4		Classification, chemical structures, functions	Soluble vitamins in lipids	Theoretical	Quick exams
4	19	Introduction to enzymes, The relation with human health	Enzymes	Theoretical	Quick exams
4		Names and functions	Classification of enzymes	Theoretical	Quick exams
4		The importance of enzyme	Kinetic properties of enzymes	Theoretical	Quick exams

		kinetics			
4		Theoretical used to explain mechanism of enzyme functions	Mechanisms of enzyme functions	Theoretical	Quick exams
4	20	Definition, factors, functions, examples	Inhibitors	Theoretical	Quick exams
4	21	Introduction, function, nitrogen bases	Nucleotides	Theoretical	Quick exams
4		Structure, types, function	Nucleic acids	Theoretical	Quick exams
4	30	Chemical structure, function, properties	DNA	Theoretical	Quick exams

95. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

96. Learning and Teaching Resources

Required textbooks (curriculum books, if any)	Introduction to biochemistry By Dr. Khawla Ahmed, 1980
Main references (sources)	Biochemistry by Dr. Abbas Dawas, 2020

Recommended books and references (scientific journals, reports...)	<p>1- خولة احمد ال فليح (مدخل الى الكيمياء الحياتية).</p> <p>2- عباس دواس المالكي (الكيمياء الحياتية).</p> <p>3- قيس عطوان الكيلاني (الكيمياء الحيوية).</p>
Electronic References, Websites	

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2025

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

111. Program Vision

The College of Education for Pure Sciences seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its educational, administrative and scientific activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving society in the fields of computers and their education.

112. Program Mission

Working to prepare and graduate leading scientific and leadership educational competencies in computers, computer sciences and arts, and to develop the balance of knowledge in the field of education to serve the local, regional and international community, as well as training and refining the minds of students scientifically, cognitively and pedagogically, and emphasizing social and cultural values and responding to the requirements of the local market.

113. Program Objectives

1. Embodying the vision, mission and goals of the University of Basra, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future educational specializations.
3. Spreading the culture of human diversity in society, transferring knowledge and linguistic skills, writing academic research, and creative scientific achievement through student- and teaching-focused activities.

4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of teaching, learning and translation.
5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.
6. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the fields of languages, literature and translation.
7. Focusing on the educational and moral aspect of the student and instilling a spirit of dedication, tolerance and commitment.

114. Program Accreditation

Does the program have program accreditation? And from which agency?

115. Other external influences

Is there a sponsor for the program?

116. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	60	3		
College Requirements	yes			
Department Requirements	yes			
Summer Training	no			

Other				
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* This can include notes whether the course is basic or optional.

117. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
2023–2024–2nd stage		Computer	yes	yes

118. Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	Informing students about the importance of computers in schools and society to create a scientific educational generation capable of keeping pace with scientific development
Skills	
Learning Outcomes 2	Expanding the student's skill in Computer
Ethics	
Learning Outcomes 4	Developing students' abilities to share ideas
Learning Outcomes 5	Disclosing one's thoughts and feelings about life matters, including how to reach To the multiple uses of the computer

119. Teaching and Learning Strategies

- 1– Explaining the theoretical and practical material in a scientific, educational manner to make students able to use the correct computer.
- 2– Discussing and expanding discussions on the most important ideas presented during the lectures
- 3– Linking well-known critical ideas with students' critical opinions

120. Evaluation methods
Weekly, monthly, daily exams and the end of the year exam.

121. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Lecturer	Biology				yes	

Professional Development
Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

122. Acceptance Criterion
(Setting regulations related to enrollment in the college or institute, whether central admission or others)

123. The most important sources of information about the program
1– Muhammad Debis (2021), The computer and its components, 144 pages 2– Mufid Awad (2023), Introduction to Computer Science, 30 pages 3– Islam Farouk (2015) Computer basics and its uses, 39 pages 4– Al-Hamza Amr (2015), Computer Ethics, 40 pages 5– Al-Baghdadi Rafi' Walid, explanation of Office programs

124. Program Development Plan

Educational planning is an organized process of a scientific and educational nature that seeks to bring about a change in human life. By activating the economic and social fields by striving to direct educational institutions to achieve future goals that contribute to providing the needs of

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023-2024		Computer	Basic												

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

97. Course Name:					
Computer					
98. Course Code:					
99. Semester / Year:					
Annual					
100. Description Preparation Date:					
17-3-2024					
101. Available Attendance Forms:					
My attendance					
102. Number of Credit Hours (Total) / Number of Units (Total)					
90 hours annually. 3 hours per week					
103. Course administrator's name (mention all, if more than one name)					
Name: Abbas Faris Abbas					
Email:					
104. Course Objectives					
Course 1– Enabling the student to know how to use the computer. 2– Achieving cooperation between employees of the educational institution 3 – Guidance to achieve the goals of the educational institution.				<ul style="list-style-type: none"> • • • 	
105. Teaching and Learning Strategies					
Strategy		1– Educational strategy, collaborative concept planning. 2– Brainstorming education strategy. 3– Education Strategy Notes Series			
106. Course Structure					
Week	Hours	Required Learning	Unit or subject name	Learning method	Evaluation method

		Outcomes			
1	3 hours		Computer		Weekly, monthly
2	3 hours			1- Explaining	daily exams
3	3 hours	1- Providing		the theoretical	the end of
4	3 hours	students with the		and scientific	year exam.
5	3 hours	skill of learning		material by	
6	3 hours	computers in		discussing how	
7	3 hours	schools and all		to use the	
8	3 hours	areas of life		computer and	
9	3 hours	2- Informing		giving the most	
10	3 hours	students about		important	
11	3 hours	the importance of		critical readings	
12	3 hours	computers in our		in this regard.	
13	3 hours	daily lives		2- Write a	
14	3 hours			review paper	
15	3 hours			for each	
Rest				administrative	
16	3 hours			point	
17	3 hours			summarizing	
18	3 hours			the most	
19	3 hours			important ideas	
20	3 hours			presented	
21	3 hours			during the	
22	3 hours			lectures	
23	3 hours			3- Linking	
24	3 hours			famous critical	
25	3 hours				
26	3 hours				
27	3 hours				
28	3 hours				
29	3 hours				
30	3 hours				

				ideas with students' critical opinions	
107. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc					
108. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			1– Muhammad Debis (2021), The computer and its components, 144 pages 2– Mufid Awad (2023), Introduction to Computer Science, 30 pages 3– Islam Farouk (2015) Computer basics and its uses, 39 pages 4– Al-Hamza Amr (2015), Computer Ethics, 40 pages 5– Al-Baghdadi Rafi' Walid, explanation of Office programs		
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
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Academic Program and Course Description Guide

2025

Introduction:

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Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

125. Program Vision

The College of Education for Pure Sciences seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its educational, administrative and scientific activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving society in the fields of computers and their education.

126. Program Mission

Working to prepare and graduate leading scientific and leadership educational competencies in educational Administration and arts, and to develop the balance of knowledge in the field of education to serve the local, regional and international community, as well as training and refining the minds of students scientifically, cognitively and pedagogically, and emphasizing social and cultural values and responding to the requirements of the local market.

127. Program Objectives

1. Embodying the vision, mission and goals of the University of Basra, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future educational specializations.
3. Spreading the culture of human diversity in society, transferring knowledge and linguistic skills, writing academic research, and creative scientific achievement through student- and teaching-focused activities.
4. The college seeks to conclude scientific and cultural cooperation agreements

with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of teaching, learning and translation.

5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.

6. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the fields of languages, literature and translation.

7. Focusing on the educational and moral aspect of the student and instilling a spirit of dedication, tolerance and commitment.

128. Program Accreditation

Does the program have program accreditation? And from which agency?

129. Other external influences

Is there a sponsor for the program?

130. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	60	2		
College Requirements	yes			
Department Requirements	yes			
Summer Training	no			

Other				
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* This can include notes whether the course is basic or optional.

131. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
2023–2024–2nd stage		Educational Administration	yes	

132. Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	Informing students about the importance of educational administration in schools to create an educational generation capable of educational administrative leadership
Skills	
Learning Outcomes 2	Expanding the student's skill in educational administration
Ethics	
Learning Outcomes 4	Developing students' abilities to share ideas
Learning Outcomes 5	Disclosing one's thoughts and feelings about life matters, including how to reach administrative leadership

133. Teaching and Learning Strategies

- 1– Explaining the theoretical material in an educational manner to make students able to lead the school class.
- 2– Discussing and expanding discussions on the most important ideas presented during the lectures
- 3– Linking well-known critical ideas with students' critical opinions

134. Evaluation methods
Weekly, monthly, daily exams and the end of the year exam.

135. Faculty

Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Lecturer	Biology				yes	

Professional Development
Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

136. Acceptance Criterion
(Setting regulations related to enrollment in the college or institute, whether central admission or others)

137. The most important sources of information about the program
<p>Marcel Plante – “Managing an Educational Institution” – 1994.</p> <p>The National Charter for Education and Training 1995</p> <p>Leadership and administrative methods in educational institutions 1993</p> <p>School Life Guide – Ministry of National Education and Youth – 2003</p> <p>Muhammad Maksi – “Educational” newspaper – Issue 3 – March 5, 2007</p> <p>Idris Qasimi and Muhammad Al-Mir, Administrative Legislation and Educational Management, 1999</p>

138. Program Development Plan

Educational planning is an organized process of a scientific and educational nature that seeks to bring about a change in human life. By activating the economic and social fields by striving to direct educational institutions to achieve future goals that contribute to providing the needs of

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023-2024		Educational Administration	Basic												

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

109. Course Name:					
Educational Administration					
110. Course Code:					
111. Semester / Year:					
Annual					
112. Description Preparation Date:					
14-3-2024					
113. Available Attendance Forms:					
My attendance					
114. Number of Credit Hours (Total) / Number of Units (Total)					
60 hours annually. 2 hours per week					
115. Course administrator's name (mention all, if more than one name)					
Name: Abbas Faris Abbas Email:					
116. Course Objectives					
Course Objectives 1– Managing the human element in the educational institution 2 – Achieving cooperation between employees of the educational institution 3 – Guidance to achieve the goals of the educational institution.			<ul style="list-style-type: none"> • • • 		
117. Teaching and Learning Strategies					
Strategy	1– Educational strategy, collaborative concept planning. 2– Brainstorming education strategy. 3– Education Strategy Notes Series				
118. Course Structure					
Week	Hours	Required	Unit or subject	Learning	Evaluation

		Learning Outcomes	name	method	method
1	2 hours	1- Providing students with the skill of learning educational administration in schools	Educational Administration	1- Explaining the scientific material by discussing the educational foundations and giving the most	Weekly, monthly exams at the end of the year exam.
2	2 hours				
3	2 hours				
4	2 hours				
5	2 hours				
6	2 hours				
7	2 hours				
8	2 hours				
9	2 hours				
10	2 hours				
11	2 hours				
12	2 hours				
13	2 hours				
14	2 hours	2- Informing students about the importance of educational administration and leadership		2- Write a review paper for each administrative point summarizing the most important ideas presented during the	
15	2 hours				
Rest					
16	2 hours				
17	2 hours				
18	2 hours				
19	2 hours				
19	2 hours				
20	2 hours				
21	2 hours				
22	2 hours				
23	2 hours				
24	2 hours				
25	2 hours				
26	2 hours				
27	2 hours				
28	2 hours				
29	2 hours				
30	2 hours				

				lectures 3- Linking famous critical ideas with students’ critical opinions	
119. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc					
120. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			Marcel Plante – “Managing an Educational Institution” – 1994. The National Charter for Education and Training 1995 Leadership and administrative methods in educational institutions 1993 School Life Guide – Ministry of National Education and Youth – 2003 Muhammad Maksi – “Educational” newspaper – Issue 3 – March 5, 2007 Idris Qasimi and Muhammad Al-Mir, Administrative Legislation and Education Management, 1999		
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					

Third year

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2025

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

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In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

139. Program Vision				
Program vision is written here as stated in the university's catalogue and website.				
140. Program Mission				
Program mission is written here as stated in the university's catalogue and website.				
141. Program Objectives				
General statements describing what the program or institution intends to achieve.				
142. Program Accreditation				
Does the program have program accreditation? And from which agency?				
143. Other external influences				
Is there a sponsor for the program?				
144. Program Structure				
Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	99	99		Basic
College Requirements	Yes			
Department Requirements	Yes			
Summer Training	Yes			
Other				
145. Expected learning outcomes of the program				
Knowledge				
Students know how to distinguish between (algae – archegoniate – plants)				
Skills				

Developing students' skills in distinguishing between (algae – archegoniate – plants)	
Ethics	
Developing students' abilities to share ideas	

* This can include notes whether the course is basic or optional.

146. Program Description						
Year/Level	Course Code	Course Name	Credit Hours			
			theoretical	Practical		
2023–2024/ 3 rd stage		Algae and Archegoniate				
147. Teaching and Learning Strategies						
Explaining the scientific method by describing the living organism and its characteristics						
148. Evaluation methods						
Weekly, monthly, daily exams and the end of the year exam.						
149. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor	Biology	Algae			Staff	
Professional Development						
Mentoring new faculty members						

Professional development of faculty members
150. Acceptance Criterion
151. The most important sources of information about the program
1. Phycology – Dr. Hussein Al-Saidi, 2006. 2. Practical algae – Dr. Ahmed Mohsen Athbi, 2014. 3. Practical Archegoniate – Dr. Ahmed Mohsen Athbi, 2021.
152. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023-2024 - 3 rd stage		Algae and archegoniate	Basic												

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

121. Course Name:	
Algae and Archegoniate	
122. Course Code:	
123. Semester / Year:	
Year	
124. Description Preparation Date:	
125. Available Attendance Forms:	
Attendance	
126. Number of Credit Hours (Total) / Number of Units (Total)	
90 hours annually. 3 hours per week	
127. Course administrator's name (mention all, if more than one name)	
Name: Prof. Dr. Ahmed Muhsin Athbi Email:	
128. Course Objectives	
Course Objectives	1. Education strategy collaborative concept planning. 2. Teaching strategy for describing algae 3. Teaching strategy for describing archegoniate 4. Teaching strategy for describing leafy plants
129. Teaching and Learning Strategies	
Strategy	

130. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1.	1	Slide show on the topic	Introduction to Algae		
2.	1	Slide show on the topic	Cyanophyta		
3.	1	Slide show on the topic	Cyanophyta		
4.	1	Slide show on the topic	Chlorophyta		
5.	1	Slide show on the topic	Chlorophyta		
6.	1	Slide show on the topic	Euglenophyta		
7.	1	Slide show on the topic	Charophyta		
8.	1	Slide show on the topic	Chrysophyta		
9.	1	Slide show on the topic	Xanthophyta		
10.	1	Slide show on the topic	Bacillatariophyta		
11.	1	Slide show on the topic	Bacillatariophyta		
12.	1	Slide show on the topic	Dinophyta		
13.	1	Slide show on the topic	Dinophyta		
14.	1	Slide show on the topic	Pheophyta		
15.	1	Slide show on the topic	Pheophyta		
vacation					
16.	1	Slide show on the topic	Rhodophyta		
17.	1	Slide show on the topic	Rhodophyta		
18.	1	Slide show on the topic	Introduction to Bryophyta		
19.	1	Slide show on the topic	Hepatocopsida		
20.	1	Slide show on the topic	Hepatocopsida		
21.	1	Slide show on the topic	Anthocerotopsida		
22.	1	Slide show on the topic	Anthocerotopsida		
23.	1	Slide show on the topic	Bryopsida		
24.	1	Slide show on the topic	Bryopsida		
25.	1	Slide show on the topic	Pteridophyte		
26.	1	Slide show on the topic	Pteridophyte		
27.	1	Slide show on the topic	Psilopsida		
28.	1	Slide show on the topic	Lycopsida		
29.	1	Slide show on the topic	Lycopsida		
30.	1	Slide show on the topic	petridopsida		

131. Course Evaluation	
Distribution is as follows: 35 for the theoretical subject and 15 for the practical subject for the first semester. 35 for the theoretical subject and 15 for the practical subject of the second semester. 50 marks for final exams	
132. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Practical algae + practical archegoniate + theoretical algae
Main references (sources)	Phycology- Dr. Hussein Al-Saidi, 2006. Practical algae - Dr. Ahmed Mohsen Athbi, 2014. Practical archegoniate - Dr. Ahmed Mohsen Athbi, 2021.
Recommended books and references (scientific journals, reports...)	Lee, 2017
Electronic References, Websites	

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
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Academic Program and Course Description Guide

2025

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

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Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

153. Program Vision
Program vision is written here as stated in the university's catalogue and website.

154. Program Mission
Program mission is written here as stated in the university's catalogue and website.

155. Program Objectives
General statements describing what the program or institution intends to achieve.

156. Program Accreditation
Does the program have program accreditation? And from which agency?

157. Other external influences
Is there a sponsor for the program?

158. Program Structure				
Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements				
Department				

Requirements				
Summer Training				
Other				

* This can include notes whether the course is basic or optional.

159. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
/2024–2023third		Entomology	theoretical	practical

160. Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	Learning Outcomes Statement 1
Skills	
Learning Outcomes 2	Learning Outcomes Statement 2
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Learning Outcomes 4	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

161. Teaching and Learning Strategies
Teaching and learning strategies and methods adopted in the implementation of the program in general.

162. Evaluation methods			
Implemented at all stages of the program in general.			
163. Faculty			
Faculty Members			
Academic Rank	Specialization	Special	Number of the teaching staff

			Requirements/Skills (if applicable)			
	General	Special			Staff	Lecturer

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

164. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

165. The most important sources of information about the program

State briefly the sources of information about the program.

166. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2024-2023		Entomology	Basic												

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

133. Course Name:					
Entomology					
134. Course Code:					
135. Semester / Year:					
2023-2024					
136. Description Preparation Date:					
137. Available Attendance Forms:					
138. Number of Credit Hours (Total) / Number of Units (Total)					
90 hours in year 3 hours weekly					
139. Course administrator's name (mention all, if more than one name)					
Name: Dr.Dhia Kalif Karim Dr.Asmaa Abdul-Zahra Sabaa Email: asmaa.sabaa@uobasrah.edu.iq					
140. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> • Learning the students about ttt • The external morphology of • insects • 			
141. Teaching and Learning Strategies					
Strategy					
142. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

		External Morphology Of insects			
143. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc					
144. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			General Entomology		
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
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Academic Program and Course Description Guide

2025

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Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... Date: 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

167. Program Vision

The College of Education for Pure Sciences seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its scientific, research and administrative activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving society in the fields of education..

168. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in education, its sciences and arts, and to develop the balance of knowledge in the field of scientific research to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market.

169. Program Objectives

1. Embodying the vision, mission and goals of the University of Basra, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.
3. Spreading the culture of human diversity in society, transferring knowledge and skills, writing academic research, and creative scientific achievement

through student– and teaching–focused activities.

4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of teaching, learning and translation.
5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.
6. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the fields of languages, literature and translation.
7. Focus on the educational and moral aspect of the student and instill a spirit of dedication, tolerance and commitment.

170. Program Accreditation
nothing

171. Other external influences
nothing

172. Program Structure				
Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	420 (2 theoretical sections for each section, two hours per week And 5 practical sections for each section, two hours per week)	420		Basic course
College Requirements	Yes			
Department Requirements	Yes			
Summer Training	nothing			
Other				

* This can include notes whether the course is basic or optional.

173. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2023–2024/third		Environment and pollution	theoretical	practical
			2	2
174. Expected learning outcomes of the program				
Knowledge				
Informing students about the importance of the environment and pollution subject through the use of all means of knowledge, covering the annual subject and in an accurate scientific manner.				
Skills				
Developing students' abilities to share ideas				
Ethics				
Disclosing one's thoughts and feelings regarding life matters, including scientific material on the environment and pollution				

175. Teaching and Learning Strategies

- 1– Developing students’ ability to understand the characteristics of the environment, pollution, types of pollutants, their causes, and treatments within the real environment.
- 2– Providing students with the knowledge and ideas to identify the most important sources for obtaining geographic environmental data, including data available at the Ministry of Health, Environment, Meteorology, and the Central Bureau of Statistics, as well as books and references related to the subject.
- 3– Enabling students to understand the basic rules of the environment and activating its role in its development on the ground.

176. Evaluation methods

Weekly, monthly, daily exams and the end of the year exam.

177. Faculty**Faculty Members**

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
professor	biology	environmental pollution			Staff	

Professional Development
Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

178. Acceptance Criterion
(Setting regulations related to enrollment in the college or institute, whether central admission or others)

179. The most important sources of information about the program
Ecology book / written by Dr. Hussein Al-Saadi

180. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
				---				----				----			

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

145.	Course Name: Environment and pollution		
146.	Course Code:		
147.	Semester / Year: Year		
148.	Description Preparation Date: 2024 /02 /23		
149.	Available Attendance Forms: Attendance		
150.	Number of Credit Hours (Total) / Number of Units (Total)		
151.	Course administrator's name (mention all, if more than one name)		
Name: Pr. Dr. Majida Sabah Abdalsaid Pr. Dr. Manal Muhammad Akbar Email: majida.abdalsaid@uobasrah.edu.iq			
152.	Course Objectives		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> Course Objectives 1- Developing students' ability to understand characteristics of the environment, pollutants types of pollutants, their causes, treatments within the real environment. 2- Providing students with the knowledge and ideas to identify the most important sources for obtaining geographic environmental data including data available at the Ministry of Health, Environment, Meteorology, and Central Bureau of Statistics, as well as books and references related to the subject. 3- Enabling students to understand the basic rules of the environment and activating </td> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> • </td> </tr> </table>		Course Objectives 1- Developing students' ability to understand characteristics of the environment, pollutants types of pollutants, their causes, treatments within the real environment. 2- Providing students with the knowledge and ideas to identify the most important sources for obtaining geographic environmental data including data available at the Ministry of Health, Environment, Meteorology, and Central Bureau of Statistics, as well as books and references related to the subject. 3- Enabling students to understand the basic rules of the environment and activating	<ul style="list-style-type: none"> •
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role in its development on the ground.					
153. Teaching and Learning Strategies					
Strategy	1 – Enabling students to become familiar with environmental topics. 2 - Trying to link the vocabulary of the academic subject to the reality of the students to consolidate the goals. 3 - Preparing students to be researchers in the field of environmental science and pollution.				
154. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Definition of ecology - the relationship of ecology to other sciences - branches of ecology	Environment and pollution	Presentation, lecture and discussion	Written and oral test
2	2	Ecosystem installation			
3	2	Ecosystems - ecological balance			
4	2	Cycles (water cycle - gaseous cycles - sedimentary cycle)			
5	2	Learn about geochemical and life cycles			
6	2	Learn about the water cycle in nature			
7	2	Endurance laws - the concept of combining the laws of maximum and minimum limits for limiting factors			
8	2	Bioproductive steps and stages			
9	2	Food chains and webs - trophic structure - environmental pyramids			
10	2	Demographic characteristics of the university			
11	2	Population organization - social behavior in population organization			
12	2	Relationships between organisms and the environment			
13	2				
14	2				
15	2				
16	2				
17	2				
18	2				
19	2				
20	2				
21	2				
22	2				
23	2				
24	2				
25	2				
26	2				
27	2				
28	2				
29	2				
30	2				

155. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc					
156. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			Ecology book / written by Dr. Hussein Saadi		
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					

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Academic Program and Course Description Guide

2025

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

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In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

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Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

181. Program Vision

Program vision is written here as stated in the university's catalogue and website.

182. Program Mission

Program mission is written here as stated in the university's catalogue and website.

183. Program Objectives

General statements describing what the program or institution intends to achieve.

184. Program Accreditation

Does the program have program accreditation? And from which agency?

185. Other external influences

Is there a sponsor for the program?

186. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements		3 unit		Basic course
College Requirements	yes			
Department Requirements	yes			

Summer Training				
Other				

* This can include notes whether the course is basic or optional.

187. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2023–2024 / third		Genetic	theoretical	practical

188. Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	Learning Outcomes Statement 1
Skills	
Learning Outcomes 2	Learning Outcomes Statement 2
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Learning Outcomes 4	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

189. Teaching and Learning Strategies
Teaching and learning strategies and methods adopted in the implementation of the program in general.

190. Evaluation methods			
Implemented at all stages of the program in general.			
191. Faculty			
Faculty Members			
Academic Rank	Specialization	Special Requirements/Skills	Number of the teaching staff

			(if applicable)			
	General	Special			Staff	Lecturer
Assist. Prof.	biology	genetics				

Professional Development
Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

192. Acceptance Criterion
(Setting regulations related to enrollment in the college or institute, whether central admission or others)

193. The most important sources of information about the program
State briefly the sources of information about the program.

194. Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023-2024		genetic	Basic												

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

157. Course Name:					
genetic					
158. Course Code:					
159. Semester / Year:					
yearly					
160. Description Preparation Date:					
19/3/2024					
161. Available Attendance Forms:					
attendance					
162. Number of Credit Hours (Total) / Number of Units (Total)					
120 hours annually, 2 theoretical , 2 practical , weekly					
163. Course administrator's name (mention all, if more than one name)					
Name: fulla a. ulsatter abed Email: fulla.abed@uobasrah.edu.iq					
164. Course Objectives					
Course Objectives			<ul style="list-style-type: none"> Concept of genetics Mendelian inheritance Mutation, linkage crossing over Molecular genetics population genetics..... 		
165. Teaching and Learning Strategies					
Strategy					
166. Course Structure					
Week	Hour	Required Learning	Unit or	Learning method	Evaluation

	s	Outcomes	subject name		method
1	Two hours week	<ul style="list-style-type: none"> Concept genetics 		Explaining the scientific material through theoretical interpretation, using educational means present to material, genetics, a detailed explanation on picture diagrams, shapes, a paths related to scientific material displaying on a display screen and using PowerPoint	Weekly, daily, and written examination and the mid- and end-of-year examination
2		Mendelian genetic			
3					
4		Gentic interaction			
5		Dominance			
6		Epistasis			
7,8		Multiple alleles			
9		Linkage and crossover			
10		Test			
11,12,13		Mutation			
14,15		The genetic of sex			
16-19		Cytoplasmic inheritance			
20-22		Holiday			
		Chemical structure nucleic acids			
		Replication and synthesis of Nucleic acids			

23-25		Protein structure and synthesis		questions related to practical material	
26		Test			
27		The genetic code			
28		Population genetics			
167. Course Evaluation					
Distribution is as follows: (17.5 theoretical + 7.5 practical) 25 marks for monthly and daily exams for the first semester. (17.5 theoretical + 7.5 practical) 25 marks for monthly and daily exams for the second semester. 50 marks for final exams					
168. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			<p>ب علم الوراثة (الجزء الثاني) للمؤلفين الدكتور جابر تاج الدين و الدكتور عبد النبي هادي سي . 1989 . رقم الايداع في المكتبة الوطنية ببغداد 157 لسنة 1989</p>		
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2025

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199. Other external influences

Is there a sponsor for the program?

200. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	Scientific research methodology			
College Requirements				
Department Requirements				

Summer Training				
Other				

* This can include notes whether the course is basic or optional.

201. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2023–2024	Scientific research method		theoretical	

202. Expected learning outcomes of the program	
Knowledge: student must be know how to search for sources and write scientific research	
Skills	
Students acquire the skill of searching for approved scientific sources in writing research	
Ethics	
Developing students abilities to search for scientific sources in scientific libraries and enabling them to use the internet and enabling to use the correct methods in writing sources in the research text	

203. Teaching and Learning Strategies
1–explaining scientific material through interactive scientific lectures 2–follow the feedback method at the and of each lecture

204. Evaluation methods
Monthly and daily theoretical and practical examinations, mid term and final

205. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Lecturer . doctor	Biology Ecology and pollution	Ecology and pollution scientific research method			Yes Yes	

Professional Development
Mentoring new faculty members
Professional development of faculty members

206. Acceptance Criterion
207. The most important sources of information about the program

208.	Program Development Plan

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023-2024		Scientific research method	Basic												

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

169. Course Name:																	
Scientific research method																	
170. Course Code:																	
171. Semester / Year:																	
Year																	
172. Description Preparation Date:																	
14/2/2024																	
173. Available Attendance Forms:																	
Exists only																	
174. Number of Credit Hours (Total) / Number of Units (Total)																	
60hours yearly ,2hours weekly																	
175. Course administrator's name (mention all, if more than one name)																	
Name: Dr. Anaam Mahdi khadban Email: anaam.khadban@uobasrah.edu.iq																	
176. Course Objectives																	
<table border="0" style="width: 100%;"> <tr> <td style="width: 35%;">Students learned the correct ways</td> <td style="width: 5%;">•</td> <td style="width: 15%;">.....</td> <td style="width: 45%;"></td> </tr> <tr> <td>search for a sources and how</td> <td>•</td> <td>.....</td> <td></td> </tr> <tr> <td>write its in the research</td> <td>•</td> <td>.....</td> <td></td> </tr> </table>						Students learned the correct ways	•		search for a sources and how	•		write its in the research	•	
Students learned the correct ways	•															
search for a sources and how	•															
write its in the research	•															
177. Teaching and Learning Strategies																	
Strategy		Reactive learning,brainstorm,discusstion															
178. Course Structure																	
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method												

Each week	3	Students learning how to research the scientific sources			Reactive learning, brainstorm, discussions
-----------	---	--	--	--	--

179. Course Evaluation

25 marks for monthly and daily exams for the first semester and 25 marks for second semester

180. Learning and Teaching Resources

Required textbook scientific research method	
Electronic References, Websites	

Forth
year

**Ministry of Higher Education and Scientific Research
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Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

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Date: 11/3/2025

209. Program Vision

The College of Education for Pure Sciences seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its scientific, research and administrative activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving the community in the areas of preparing teachers to teach biology in schools. high school.

210. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in teaching biology in secondary schools in developing the balance of knowledge in the field of scientific research to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market.

211. Program Objectives

1. Embodying the vision, mission and goals of the University of Basra, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.
3. Spreading the culture of human diversity in society, transferring knowledge and skills, writing academic research, and creative scientific achievement through student- and teaching-focused activities.

4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of education and learning.
 5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.
 6. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the fields of science.
- Focusing on the educational and moral aspect of the student and instilling a spirit of dedication, tolerance and commitment.

212. Program Accreditation

No

213. Other external influences

No

214. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements		6		Basic course
College Requirements	Yes			
Department Requirements	Yes			
Summer Training	No			
Other				

* This can include notes whether the course is basic or optional.

215. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2023–2024/ fourth class		Microbiology	Theoretical 2	Practical 2

216. Expected learning outcomes of the program	
Knowledge	
Informing students of scientific knowledge about germs and pathogens, their benefits to the environment, society, and the individual, and their role in industry.	
Skills	
Expanding and acquiring the skill of identifying everything related to microbiology, its role, and its relationship to other sciences.	
Ethics	
Developing students' abilities to participate in discussing the role of germs and their relationship with humans through their causes of diseases in humans and the benefits of some of them to humans in various fields.	

217. Teaching and Learning Strategies

- 1– Explaining the scientific material through theoretical interpretation, using teaching aids to present the science material, and detailed explanation of microbiology with pictures, diagrams, shapes, and paths related to the scientific material by displaying it on a display screen and using PowerPoint..
- 2– Discussing scientific ideas within the lecture and linking its topics in an applied manner
- 3– Developing students’ abilities to think and conclude by asking questions related to the practical material
- 4– Students learned to think about the emergence of diseases and their causes, which are related to the scientific subject

218. Evaluation methods

Weekly, monthly, daily, mid–year and end–of–year exams.

219. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor	Biology	Microbiology			1	
Assistant Professor	Biology	Microbiology			2	

Professional Development

Mentoring new faculty members

Orienting new faculty members

Professional development of faculty members

Professional development for faculty members
--

220. Acceptance Criterion

221. The most important sources of information about the program
Guyton, A.C. and Hall, J.E. (2006). Textbook of medical physiology. (11th ed), Philadelphia, USA. PP.1116.

222. Program Development Plan
Studying the theoretical and applied aspects and trying to think and conclude about bacteriology in order to deepen understanding and increase awareness and enhance memory with all scientific information.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023-2024				X					X					X	

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

181.	Course Name: Microbiology
182.	Course Code:
183.	Semester / Year: Year
184.	Description Preparation Date: 23/2/2024
185.	Available Attendance Forms:
	Attendance only
186.	Number of Credit Hours (Total) / Number of Units (Total)
120 hour in year, 2 hr. theoretical, 2 hr. practical	
187.	Course administrator's name (mention all, if more than one name)
Name: Ghaida'a Jassim Al-Ghizzawi Email: ghaeda.abdulnabi@uobasrah.edu.iq Name: Maytham Ayoub Abdulkadir Al-Hamdani Email: Maythamhamdani@gmail.com Name: Ali Aboud Shareef Email: aliaboud547@gmail.com	
188.	Course Objectives
Course Objectives	1 – Providing students with the skill of learning and interpreting bacteriology 2 – Expanding the skill of deduction, reasoning, and scientific discussion of the subject of bacteriology 3 – Familiarity with various aspects in terms of cellular structure, classification of bacteria, metabolic mechanisms, growth of bacteria, and relationship of bacteriology to other sciences and their relationship to disease events.

189. Teaching and Learning Strategies					
Strategy		1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series			
190. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 hr. in a week	1- Providing students with the skill of learning and understanding the different aspects of the concept of bacteriology	What do we mean by bacteriology?	1- Explaining the scientific material through theoretical interpretation, using educational means to present the bacteriology material, and detailed explanation on pictures, diagrams, shapes, and paths related to the scientific material by displaying on a display screen and using PowerPoint	Weekly, monthly, daily, and written exams and mid- and end-of-year exams
2			Types of microorganisms		
3			A historical overview of the emergence of science		
4			Germ theory of disease		
5			Classification of microorganisms		
6			Composition and function of microorganisms		
7			Cellular structure and function of microorganisms		
8			Microbial metabolism and energy production		
9			Control of microorganisms		
10			Microbial ecology		
11		2- Informing students about the importance of germs in relation to their role as pathogens, addition to the benefits of the other part of them to humans.	Classification of microorganisms		
12			Composition and function of microorganisms		
13			Cellular structure and function of microorganisms		
14			Microbial metabolism and energy production		
15			Control of microorganisms		
16			Microbial ecology		
17			Microbial evolution		
18			Microbial biotechnology		
19			Microbial immunology		
20			Microbial physiology		
21		3- Avoid and prevent diseases that cause	Microbial metabolism and energy production		
22			Control of microorganisms		
23			Microbial ecology		
24			Microbial evolution		
25			Microbial biotechnology		
26			Microbial immunology		
27			Microbial physiology		
28			Microbial pathogenesis		
29			Microbial epidemiology		
30			Microbial control		

			genetics Viruses Pathogenic bacteria Microorganism s in soil Microorganism s in water Microorganism s in food	Developing students' abilities to think and conclude by asking questions related to t practical material 4- Learn think abo the emergence diseases a their caus which a related to t scientific subject	
191. Course Evaluation					
Evaluation by Distribution is as follows: (17.5 theoretical + 7.5 practical) 25 marks for monthly and daily exams for the first semester. (17.5 theoretical + 7.5 practical) 25 marks for monthly and daily exams for the second semester. 50 marks for final exams.					
192. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)					
Recommended books and references (scientific journals, reports...)			Microbiology- An introduction Tortora, Funke and Case Tenth Edition, 2010 Pearson international Publication		
Electronic References, Websites					

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Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

223. Program Vision

The College of Education for Pure Sciences seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its scientific, research and administrative activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving society in the fields of teaching and teaching pure sciences.

224. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in the life sciences and sciences and to develop the balance of knowledge in the field of scientific research to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market..

225. Program Objectives

1. Embodying the vision, mission and goals of the University of Kufa, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.
3. Spreading the culture of human diversity in society, transferring knowledge and linguistic skills, writing academic research, and creative scientific achievement through student- and teaching-focused activities.

4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of teaching, learning and translation.

5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.

6. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the fields of languages, literature and translation.

Focusing on the educational and moral aspect of the student and instilling a spirit of dedication, tolerance and commitment..

226. Program Accreditation

Nothing

227. Other external influences

Nothing

228. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements		6 unit		Basic course
College Requirements	Yes			
Department Requirements	yes			
Summer Training	nothing			

Other				
--------------	--	--	--	--

* This can include notes whether the course is basic or optional.

229. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2023/2024		Animal physiology	theoretical	practical
			2	2

230. Expected learning outcomes of the program	
Knowledge	
Informing students of scientific knowledge of the functions of organs in animals and humans and their importance in the survival and survival of the individual	Learning Outcomes Statement 1
Skills	
Expanding and acquiring the skill of functional description of all body parts	Learning Outcomes Statement 2
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Developing students' abilities to participate in discussing physiological functions and diseases resulting from organ disorders	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

231. Teaching and Learning Strategies
1– Explaining the scientific material through theoretical interpretation, using educational means to present the subject of physiology and detailed explanation

on pictures, diagrams, shapes and paths related to the scientific material by displaying it on a display screen and using PowerPoint..

2– Discussing scientific ideas within the lecture and linking its topics in an applied way to humans or animals

3– Developing students’ abilities to think and conclude by asking questions related to the practical material

4– Students learned to think about the emergence of diseases and their causes, which are related to the scientific subject, such as diabetes, high blood pressure, kidney disease, heart disease, and others..

232. Evaluation methods

Weekly, monthly, daily, mid–year and end–of–year exams

233. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Prof.	Biology	Animal physiology			1	
Assist prof.	Biology	Animal physiology			2	

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full–time, and part–time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

234. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

235. The most important sources of information about the program

Guyton, A.C. and Hall, J.E. (2006). Textbook of medical physiology.(11th ed), Philadelphia, USA. PP.1116.

236. Program Development Plan

Studying the theoretical and applied aspects and trying to think and conclude about the science of physiology and comparing it to physiological diseases in order to deepen understanding and increase awareness and enhance memory with all scientific information.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023/2024		Animal physiology	Basic	—					—					—	

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

193.	Course Name: Animal Physiology
	Physiology
194.	Course Code:
195.	Semester / Year: Annual
196.	Description Preparation Date: 23/2/2024
197.	Available Attendance Forms: attendancely
198.	Number of Credit Hours (Total) / Number of Units (Total)
	120 hours annually / 2 hr. theoretical / 2hr. practical
199.	Course administrator's name (mention all, if more than one name)
	Name: Dr. Faris Shaker Kata Email: faris.kataa@uobasrah.edu.iq Dr. Heba Thaqeb yesr Dr. Selma Saeed
200.	Course Objectives
Course Objectives 1- Providing students with skill of learning interpreting physiology 2- Expanding the skill of deduction, reasoning, and scientific discussion of the subject of physiology. 3 - Applying the functional concept of organs to the bodies of animals and humans 4-- Knowing the relationship between organ health and	<ul style="list-style-type: none"> •

functional disorders 5- Learn about functional diseases resulting from organ dysfunction					
201. Teaching and Learning Strategies					
Strate	1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series				
202. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Hollida 16 17 18 19 19 20 21 22 23	2 hr. in week	1- Providing students with the skill of learning the functions of various body systems 2- Informing students about the importance of the job role in relation to animal and human health 3- Avoid and prevent	Nervous system Digestive Reproductive system Musculature Circulatory Heart and blood Endocrine glands Respiratory system	1- Explaining the scientific material through theoretical interpretation, using educational means to present the subject of physiology and detailed explanation on pictures, diagrams, shapes and paths related to the scientific material by displaying it on a display screen and using PowerPoint.. 2- Discussing scientific ideas within the lecture and linking its topics in an applied way to humans or animals 3- Developing	Weekly, monthly, daily, and written exams, and the mid- and end-of-year exams.

24 25 26 27 28 29 30		physiological diseases by understanding the functional role of your organ and not harming it		students' abilities to think and deduce by asking questions related to the practical material 4- Students learned to think about the emergence of diseases and their causes, which are related to the scientific subject, such as diabetes, high blood pressure, kidney disease, heart disease, and others.	
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203. Course Evaluation

Distribution is as follows: (17.5 theoretical + 7.5 practical) 25 marks for monthly and daily exams for the first semester. (17.5 theoretical + 7.5 practical) 25 marks for monthly and daily exams for the second semester. 50 marks for final exams

204. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Animal Physiology/ Arabs, Youssef Muhammad and Al-Aluji, Sabah Nahi and others, 1989, University of Baghdad.
Main references (sources)	Physiology / Al-Abdullah, Shteiw, 2012, University of Jordan
Recommended books and references (scientific journals,	Guyton, A.C. and Hall, J.E. (2006). Textbook of medical physiology. (11 th ed), Philadelphia, USA. PP.1116.

reports...)	
Electronic References Websites	chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://dspace.univ-alger3.dz/jspui/bitstream/123456789/6192/1/%D9%85%D8%B7.153.pdf chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.uoanbar.edu.iq/AppliedSciencesHeet/catalog/%D8%B9%D9%84%D9%85%20%D9%88%D8%B8%D8%A7%D8%A6%D9%81%20%D8%A7%D9%84%D8%A7%D8%B9%D8%B6%D8%A7%D8%A1.pdf

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2025

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

237. Program Vision

Program vision is written here as stated in the university's catalogue and website.

238. Program Mission

Program mission is written here as stated in the university's catalogue and website.

239. Program Objectives

General statements describing what the program or institution intends to achieve.

240. Program Accreditation

Does the program have program accreditation? And from which agency?

241. Other external influences

Is there a sponsor for the program?

242. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements				
Department				

Requirements				
Summer Training				
Other				

* This can include notes whether the course is basic or optional.

243. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical

244. Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	Learning Outcomes Statement 1
Skills	
Learning Outcomes 2	Learning Outcomes Statement 2
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Learning Outcomes 4	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

245. Teaching and Learning Strategies
Teaching and learning strategies and methods adopted in the implementation of the program in general.

246. Evaluation methods
Weekly, monthly, daily exams and the end of the year exam

247. Faculty			
Faculty Members			
Academic Rank	Specialization	Special	Number of the teaching staff

			Requirements/Skills (if applicable)			
	General	Special			Staff	Lecturer
	biology	immunology			1	Professor

Professional Development
Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

248. Acceptance Criterion
(Setting regulations related to enrollment in the college or institute, whether central admission or others)

249. The most important sources of information about the program
Clinical Immunology Overview of the Immune System

250. Program Development Plan
1– Increasing the number of course hours from one theoretical hour to two hours in order to cover and expand on the scientific material

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023/2024		IMMUNOL OGY	BASIC												

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

205. Course Name: immunology					
206. Course Code:					
207. Semester / Year:					
208. Description Preparation Date:					
209. Available Attendance Forms:					
210. Number of Credit Hours (Total) / Number of Units (Total)					
211. Course administrator's name (mention all, if more than one name)					
212. Course Objectives					
Course Objectives			Providing students with the skill of applying id for studying the immune system		
213. Teaching and Learning Strategies					
Strategy		1– Educational strategy, collaborative concept planning 2– Brainstorming education strategy. 3– Education Strategy Notes Series			
214. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

215. Teaching and Learning Strategies					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc					
216. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)			Clinical Immunology Overview of the Immune System Essentials of clinical immunology		
Recommended books and references (scientific journals, reports...)			Clinical Immunology Overview of the Immune System Essentials of clinical immunology		
Electronic References, Websites					

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2025

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

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Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

251. Program Vision

The College of Education for Pure Sciences seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its scientific, research and administrative activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving the community in the areas of preparing teachers to teach biology in schools. High school.

252. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in teaching biology in secondary schools in developing the balance of knowledge in the field of scientific research to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market.

253. Program Objectives

1. Embodying the vision, mission and goals of the University of Basra, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.
3. Spreading the culture of human diversity in society, transferring knowledge and skills, writing academic research, and creative scientific achievement through

student– and teaching–focused activities.

4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of education and learning.

5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.

6. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the fields of science.

Focusing on the educational and moral aspect of the student and instilling a spirit of dedication, tolerance and commitment.

254. Program Accreditation

No

255. Other external influences

No

256. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements		4		Basic course
College Requirements	Yes			
Department Requirements	Yes			
Summer Training	No			

Other				
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* This can include notes whether the course is basic or optional.

257. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2023–2024/ fourth class		Molecular Biology	Theoretical 2	

258. Expected learning outcomes of the program	
Knowledge	
Informing students with scientific knowledge about science Molecular biology is a fascinating and dynamic scientific field that focuses on the molecular structure of biological activity, and plays a role in our understanding of life at the cellular level. This branch of biology delves into the study of the interactions and functions of various molecules within cells, focusing primarily on DNA, RNA, and proteins, which are vital to life processes.	
Skills	
Expanding and acquiring the skill of recognizing everything related to science Molecular biology and understanding how these molecules interact within cells and how they affect the	

biological activities of the organism.	
Ethics	
Developing students' abilities to the sharing in discussion all that related to the fields of molecular biology with mention to a number of topics these include the molecular structure of DNA and how it affects the formation of the organism, and the study of genetic interactions and their functions. And this field of biology also studies the molecular basis of phenotypic characteristics, which is essential for understanding how evolutionary selection pressures affect organisms.	

259. Teaching and Learning Strategies

- 1–Explaining the scientific material through theoretical interpretation using teaching aids to present the material and detailed explanation of molecular biology with pictures, diagrams and shapes for the purpose of learning about understand how the nucleic acids and proteins and how they affect the biological activities of the organism by displaying it on a display screen and using power point.
- 2–Discussing scientific ideas within the lecture and linking its topics in an applied manner
- 3–Developing students’ abilities to think and deduce by asking questions related to practical material

4- Students learned to think about the diversity of nucleic acids and proteins and their role in morphology of an organism.

260. Evaluation methods

Weekly, monthly, daily, mid-year and end-of-year exams.

261. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor	Biology	Biotechnology			1	
Assistant Professor	Biology	Parasitology/molecular Biology			1	

Professional Development

Mentoring new faculty members

Orienting new faculty members

Professional development of faculty members

Professional development for faculty members

262. Acceptance Criterion

263. The most important sources of information about the program

Molecular biology book by author Dr. Nashat Ghaleb Mustafa. (2018). Published

by University Book House.

264. Program Development Plan

Studying the theoretical and applied aspect and the attempt to think and conclude for molecular biology in order to deepen understanding and increase awareness and enhance memory with all scientific information.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023-2024				X					X					X	

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

217. Course Name:	
Molecular Biology	
218. Course Code:	
219. Semester / Year:	
Year	
220. Description Preparation Date:	
20/3/2024	
221. Available Attendance Forms:	
Attendance only	
222. Number of Credit Hours (Total) / Number of Units (Total)	
60 hour in year, 2 hr. theoretical.	
223. Course administrator's name (mention all, if more than one name)	
Name: Ali Aboud Shareef Email: aliaboud547@gmail.com Name: Sarmad Awad Mozan AL-Asadi Email: sarmad.mozan@uobasrah.edu.iq	
224. Course Objectives	
Course Objective	1- Providing students with skills learning and interpreting science Molecular biology 2- Skill expansion Conclusion, explanation, and scientific discussion of molecular biology . 3- Familiarity with various aspects of the role nucleic acids and proteins in the structure and function the cell.
225. Teaching and Learning Strategies	
Strategy	1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series

226. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	2 hr. in week	1. Providing students with skills to learn and Understanding the different aspects of the concept of molecular biology 2- Informing students about the importance of Nucleic acids and proteins. 3- Know the exact structure of proteins and nucleic acids compare them to prokaryotic cells with examples.	* Historical introduction. * Chromosomes: structure and function. * DNA and its replication. *. Mutations and their repair. *. Genes: their structure and function in archaea and eukaryotes * Regulating gene expression. *Structure and types of RNA * RNA processing. *Regulating gene expression. *Protein manufacturing.	1-Explaining the scientific material through theoretical interpretation using teaching aids to present the subject of molecular biology and detailed explanation on pictures, charts, shapes and paths related to the scientific subject by displaying it on a display screen and using PowerPoint.. 2-Discussing scientific ideas within the lecture and linking its topics 3-Developing students' ability to think and deduce by asking questions related to practical material.	Weekly, monthly, and weekly exams, and mid- and end-year exams
227. Course Evaluation					
Evaluation by Distribution is as follows: 25 marks for monthly and daily exams for the first semester. 25 marks for monthly and daily exams for the second semester. 50 marks for final exams.					

228. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Molecular biology book by author Nashat Ghaleb Mustafa. (2018). Published by University Book House.
Electronic References, Websites	

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2025

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

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Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

265. Program Vision

The College of Education for Pure Sciences seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its scientific, research and professional activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving society in the fields of education..

266. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in the professional field is teaching in schools of education and developing the balance of knowledge in the field of scientific research to serve the local, regional and international community

267. Program Objectives

8. . Embodying the vision, mission and goals of the University of Basra, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.
3. Spreading the culture of human diversity in society, transferring educational knowledge and skills, writing academic research

268. Program Accreditation

Does the program have program accreditation

269. Other external influences

Is there a sponsor for the program?

270. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements				
Department Requirements				
Summer Training				
Other				

* This can include notes whether the course is basic or optional.

271. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
2023–2024		Mycology	theoretical	practical
			2	1

272. Expected learning outcomes of the program

Knowledge	
Informing students about the importance of fungi, how to identify them through their morphological characteristics, knowing their taxonomic affiliation,	Learning Outcomes Statement 1

Skills	
Training students to identify fungi by the type of life cycle	Learning Outcomes Statement 2
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Developing students' abilities to make practical inferences and discover fungi	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

273. Teaching and Learning Strategies

Teaching and learning strategies and methods adopted in the implementation of the program in general. – Explaining the scientific material and preparing a presentation that includes all the details, scientific terminology, pictures, illustrations, and diagram that summarize the material

274. Evaluation methods

Weekly, monthly, daily exams and the end of the year exam

275. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
	Biology	Mycology				

Professional Development

Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

276. Acceptance Criterion
(Setting regulations related to enrollment in the college or institute, whether central admission or others)

277. The most important sources of information about the program
Ainsworth GC, Sparrow FK and Sussman AS. 1973. The Fungi Alexopoulos CJ, Mims CW and Blackwell M. 1996. Introductory Mycology. John Wily & Sons

278. Program Development Plan
A comparative study between botanical description and botanical terminology with fungi in nature

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023/2024		Mycology													

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

229. Course Name: Mycology					
Mycology					
230. Course Code:					
231. Semester / Year:					
2023/2024					
232. Description Preparation Date:					
19/3/2024					
233. Available Attendance Forms:					
presence only					
234. Number of Credit Hours (Total) / Number of Units (Total)					
90 hours annually. 3 hours per week					
235. Course administrator's name (mention all, if more than one name)					
Name: Dr. Zainab khalaf Abdulla Email: Zainab.abdulla@uobasrah.edu.iq					
236. Course Objectives					
Informing students about the importance of fungi, how to identify them through their morphological characteristics, and knowing their taxonomic affiliation			<ul style="list-style-type: none"> • • • 		
237. Teaching and Learning Strategies					
Strategy	1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy.				
238. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

		2 Introduction of Mycology Fungal characteristic 2 Nutrition 4 Reproduction 4 Fungal growth 4 Myxomycota 2 Chytridiomycota 2 Zygomycota 4 Ascomycota 2 Basidiomycota 2 Deuteromycota 4 Taxonomy 4 Ecology 4 Fungal Biotechnology 4		Explaining the scientific material and preparing presentation that include all the details, scientific terminology, pictures, illustrations and diagrams that summarize the material	duty to collect a number of plant parts and classify themWeekly, monthly, daily, written exams, and the end-of-year exam
239. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc					
240. Learning and Teaching Resources					
Required textbooks (curricular books, if any)		Mycology			
Main references (sources)		Alexopoulos CJ, Mims CW and Blackwell M. 1996. Introductory Mycology. John Wiley & Sons			
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites		https://faculty.uobasrah.edu.iq/faculty			

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2025

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

279. Program Vision

The College of Education for Pure Sciences seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its scientific, research and administrative activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving society in the fields of teaching and teaching pure sciences.

280. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in the life sciences and sciences and to develop the balance of knowledge in the field of scientific research to serve the local, regional, and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market...

281. Program Objectives

1. Embodying the vision, mission, and goals of the University of Basrah, and applying the best educational practices with a focus on ensuring and enhancing quality and performance.
2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.
3. Spreading the culture of human diversity in society, transferring knowledge and linguistic skills, writing academic research, and creative scientific achievement

through student– and teaching–focused activities.

4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of teaching, learning and translation.

5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.

6. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the fields of languages, literature and translation.

Focusing on the educational and moral aspect of the student and instilling a spirit of dedication, tolerance and commitment.

282. Program Accreditation

Nothing

283. Other external influences

Nothing

284. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements		6 unit		Basic course
College Requirements	Yes			
Department Requirements	yes			

Summer Training	nothing			
Other				

* This can include notes whether the course is basic or optional.

285. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2023/2024		Parasitology	theoretical	practical
			2	2

286. Expected learning outcomes of the program	
Knowledge	
Informing students of scientific knowledge of the morphology, anatomy, physiology of the parasites from protozoa to helminths	Learning Outcomes Statement 1
Skills	
Providing the students with skills in classifying and diagnosing parasites and how to prevent and protect himself and society from infection with these parasites.	Learning Outcomes Statement 2
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
Developing students' abilities to participate in discussing morphology, physiology, taxonomy of parasites and the diseases resulting from it.	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

287. Teaching and Learning Strategies

- 1– Lecture by power point presentation
- 2– Discussion in class
- 3– Laboratory with specimens
- 4– Suggested reading.

288. Evaluation methods

Student achievement is measured and evaluated by: Daily, weekly, monthly, mid–year and end–of–year exams.

289. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Prof.	Biology	Parasitology			2	1

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full–time, and part–time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

290. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

291. The most important sources of information about the program

Roberts, S. L.;Janovy,Jr. and Nadler, S. (2015)Foundation of Parasitology (9thed)McGraw Hill.

292. Program Development Plan

Studying the theoretical and applied aspects and trying to think and conclude about the science of parasitology and parasitological diseases to deepen understanding and increase awareness and enhance memory with all scientific information.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
(4 th) 2023/2024		Parasitology	Basic	—					—					—	

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

241.	Course Name:		
	Parasitology		
242.	Course Code:		
243.	Semester / Year: Annual		
	Annual		
244.	Description Preparation Date:		
	23/2/2024		
245.	Available Attendance Forms:		
	Attendance		
246.	Number of Credit Hours (Total) / Number of Units (Total)		
	96 hours annually / 2 hr. theoretical / 2hr. practical		
247.	Course administrator's name (mention all, if more than one name)		
	Name: Dr. Basim Hashem Abdulla Dr. Sabeeh Helial Jaid Email: sabeeh.jaid@uobasrah.edu.iq Dr. Abdul Husain Habash Awad		
248.	Course Objectives		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; vertical-align: top;"> Course Objectives After completing this course, the student should be able to 1-Classify each parasite phylum to species level 2-Explain the external and internal morphology, the structure and function of various organ systems, and the life cycle and behavior of each parasite. 3 – The diseases caused by these parasites and how to diagnose and prevent them and protect himself and society from them. 4-Explain phylogenetic relationships of each parasite phylum. </td> <td style="width: 40%; vertical-align: top;"> <ul style="list-style-type: none"> • </td> </tr> </table>	Course Objectives After completing this course, the student should be able to 1-Classify each parasite phylum to species level 2-Explain the external and internal morphology, the structure and function of various organ systems, and the life cycle and behavior of each parasite. 3 – The diseases caused by these parasites and how to diagnose and prevent them and protect himself and society from them. 4-Explain phylogenetic relationships of each parasite phylum.	<ul style="list-style-type: none"> •
Course Objectives After completing this course, the student should be able to 1-Classify each parasite phylum to species level 2-Explain the external and internal morphology, the structure and function of various organ systems, and the life cycle and behavior of each parasite. 3 – The diseases caused by these parasites and how to diagnose and prevent them and protect himself and society from them. 4-Explain phylogenetic relationships of each parasite phylum.	<ul style="list-style-type: none"> • 		
249.	Teaching and Learning Strategies		

Strategy	1- Educational strategy, collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series
250. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	The student gets to know the relationships between organisms and what is meant by parasitology	General introduction to parasitology and association between parasites	lecture	Weekly, monthly, daily, and written exams, and the mid- and end-of-year exams.
2	4	The student gets to know the most important terms in parasitology and learns how to write the scientific name of living organisms	The most important terms in parasitology	Lecture	
3	4	The student will learn the parasitic larval stages and how they enter the human body	Mode of parasitic transmission to man and parasitic larval stages	Lecture	
4	4	The student will be known the symptoms and signs of parasitic diseases and how to prevent and control them	Pathology and symptomatology, Prevention, and control of parasites	Lecture	
5,6	4+4	The student will learn about parasitic protozoa and diseases they cause.	Parasitic protozoology	Lecture	
7	4	The student will be known the opportunistic amoebas and the diseases they cause.	Opportunistic Amoeba	Lecture	
8	4	The student gets to know the parasitic intestinal flagellates and the diseases they cause.	Intestinal Flagellates	Lecture	
9	4	The student gets to know the <i>Leishmania</i> species, its reservoir and vector hosts, and the diseases they cause in humans.	<i>Leishmania</i> and Leishmaniasis	Lecture	
10	4	The student gets to know the <i>Trypanosoma</i> species, its reservoir and vector hosts, and the diseases they cause in humans	<i>Trypanosoma</i> and Trypanosomiasis	Lecture	
11	4	The student should know about the nature of Heamasporozoa and the diseases they cause in humans.	Heamasporozoa	Lecture	
12	4	The student gets to know the general characteristics of the phylum platyhelminths and how to	Phylum: Platyhelminths, Class: Trematodes	Lecture	

		classify them.			
13	4	The student should know what is meant by Digenea, how it completes its life cycle, what its intermediate and final hosts are, and what diseases it causes to humans.	Subcl: Digenea	Lecture	
14,15	4+4	The student should know the identification of schistosomes, how it completes its life cycle, what its intermediate and final hosts are, and what diseases it causes to humans.	Blood flukes or Schistosomes	Lecture	
16	4	The student gets to know the general characteristics of the class Cestoda and how to classify it.	Class: Cestodes	Lecture	
17	4	The student gets to know the general characteristics of the Order: Pseudophyllidea and its species, and what diseases it causes to humans.	Order: Pseudophyllidea	Lecture	
18,19	4+4	The student gets to know the general characteristics of the Order: Cyclophlloidea and its species, and what diseases it causes to humans.	Ord.: Cyclophlloidea	Lecture	
20,21,22	4+4+4	The student gets to know the general characteristics of the phylum Nematoda and how to classify them. The important species and what diseases it causes to humans.	Phylum: Nematodes	Lecture	

251. Course Evaluation

Distribution is as follows: (17.5 theoretical + 7.5 practical) 25 marks for monthly and daily exams for the first semester. (17.5 theoretical + 7.5 practical) 25 marks for monthly and daily exams for the second semester. 50 marks for final exams

252. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Parasitology/ Al- Hadethii, I. and Awad A. H.,(2015) University of Basrah.
Main references (sources)	Roberts, S. L.;Janovy,Jr. and Nadler, S. (2015)Foundation of Parasitology (9 th ed)McGraw Hill.
Recommended books and references (scientific journals, reports...)	International J. of Parasitology, Parasitology, and

	Publication of the WHO.
Electronic References, Websites	The student is encouraged to use the internet and scientific websites to obtain information about parasites.

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2025

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

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Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name:Basrah.

Faculty/Institute:College of Education for pure Science.

Scientific Department:Biology.

Academic or Professional Program Name:

Final Certificate Name:Bsc. Biology.

Academic System:Annual.

Description Preparation..... **Date:** 11/3/2025



Prof. Dr. Mufeed Qasim Muhammad

Head of Department

Date: 11/3/2025



Assist. prof. Dr. Haider Qasim Fadhil

Scientific Associate

Date: 11/3/2025



The file is checked by: Prof. Dr. Hussein Ali Badran

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11/3/2025



Approval of the Dean:

Prof. Dr. Majid Mohammed Jasim

Date: 11/3/2025

293. Program Vision

Program vision is written here as stated in the university's catalogue and website.

294. Program Mission

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295. Program Objectives**296. Program Accreditation****297. Other external influences****298. Program Structure**

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	/ 2024-2023 Fourth			نظري
College Requirements				
Department Requirements				
Summer Training				

Other				
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* This can include notes whether the course is basic or optional.

299.Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
/ 2024–2023Fourth		Plant Physiology	theoretical	practical
2	2			

300. Expected learning outcomes of the program	
Knowledge	
Learning Outcomes 1	Informing students about the importance of scientific theories in plant physiology
Skills	
Learning Outcomes 2	Expand skill and knowledge in understanding plants
Ethics	
Learning Outcomes 4	Developing students' abilities to share ideas
Learning Outcomes 5	Expressing one's thoughts regarding life matters, including scientific material in plant physiology

301. Teaching and Learning Strategies
<p>Explaining the scientific material through a presentation, explanation of the material, and student participation.</p> <p>2– Write a review paper for each topic</p> <p>3– Linking famous scientific ideas with students' opinions</p>

302. Evaluation methods
Weekly, monthly, daily exams and the end of the year exam.

303. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Prof. dr.	physiology horticultural crops	Plant physiology			yes	
Assist. Prof. dr.	botany	plant physiology			Yes	

Professional Development
Mentoring new faculty members
Orienting new faculty members
Professional development of faculty members
Professional development for faculty members

304. Acceptance Criterion
(Setting regulations related to enrollment in the college or institute, whether central admission or others)

305. The most important sources of information about the program
Fundamentals of plant physiology

306. Program Development Plan
A comparative study of applying the ideas of ancient scholars with modern science Work on a comparison between theories to bring a comprehensive view to understanding plant physiology

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
		Plant physiology					—								

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

253. Course Name: plant physiology					
254. Course Code:					
255. Semester / Year					
256. Description Preparation Date: 2024 /02 /14 :					
257. Available Attendance Forms:					
My presence only					
258. Number of Credit Hours (Total) / Number of Units (Total)					
230 hours annually. 8 hours per week					
259. Course administrator's name (mention all, if more than one name)					
Name: Prof. Dr. Abdul Kareem Abd Email: abdukkareem.abd@uobasrah.edu.iq Name: Assist. Prof. Dr. Murtadha Hussein Fayadh Email: murtadha.fayadh@uobasrah.edu.iq					
260. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> • • • 			
261. Teaching and Learning Strategies					
Strategy					
262. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

263. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc					
264. Learning and Teaching Resources					