

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



Academic Program and Course Description Guide

2nd stage Embryology 2025-2026

Academic Program Description Form

University Name: University of Al-Qadisiyah
Faculty/Institute: College of medicine
Scientific Department:
Academic or Professional Program Name: General Medicine and Surgery
Final Certificate Name: Bachelor's degree in General Medicine and Surgery
Academic System: Annual year / 2 semester
Description Preparation Date: 10/9 /2025
File Completion Date: 16/9/2025

Signature:



Head of Department Name:

Prof Dr. Nael Mohammed

Signature:



Scientific Associate Name:

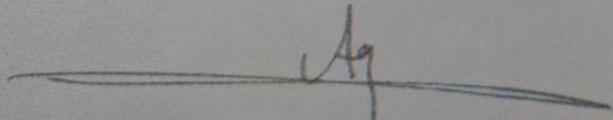
Prof. Dr. Mohammed Saad

The file is checked by: Prof Dr. Anwar jassib
Department of Quality Assurance and University Performance
Director of the Quality Assurance and University Performance
Department:

Signature:



Approval of the Dean



1. Program Vision

Seeking to make the College of Medicine in Al-Qadisiyah University a distinguished college among the medical colleges in Iraq in the field of medical education. Additionally, to make it has a clear imprint in promoting the health field in the Iraqi community and works to provide distinctive proposals and views for basic and clinical medical sciences to ensure meeting the health needs of the community at the local and national levels..

2. Program Mission

Al Qadisiyah medical college aims at producing medical doctors that are able to participate effectively in the health care delivery system whether in Iraq or any other country
The curriculum is designed to provide students with the necessary knowledge, skills and attitudes in order to function as safe doctors and have the baseline for lifelong learning in the medical field in the future
The teaching methods are guided by learning objectives that ensure delivering basic biomedical, behavioral and social and clinical subjects which help creating an efficient junior doctor who is competent, motivated and professional.
It is a well-established strategy that students are heard and welcomed to provide feedback about different aspects of the learning process and they are considered as an essential part in the decision making in the college used for continuous planning for improvement of the whole institution.

3. Program Objectives

Graduating distinguished doctors and rehabilitating them scientifically, professionally and ethically so that they can provide health and medical care to individuals, families and society on sound scientific bases and in accordance with the noble moral, social and humanitarian values with great interest in primary health care
- **Developing curricula, teaching aids and methods to improve quality based on international quality standards and academic accreditation**
- **Achieving accreditation through the institutional capacity standards of the college. Achieving academic accreditation standards for student and graduate programs offered by the college**
Continuous support for distinguished cadres of faculty members through an academic environment that encourages production and creativity
θ Continuous development of the scientific research system to identify and diagnose major health problems in the community, propose appropriate scientific solutions to them, and keep pace with development in basic and clinical medical sciences.

4. Program Accreditation

An application has been made for national accreditation for medical colleges

5. Other external influences

Advances in medical science and technology , requiring regular curriculum updates

6. Program Structure				
Program Structure	Number of semester	Credit hours	Percentage	Reviews*
Institution Requirements	2	Total hours for annual year semester I, II 30h theory only		Basic
College Requirements	2	Total hours for annual year semester I, II 30h theory only		Basic
Department Requirements	2	Total hours for annual year semester I, II 30h theory only		Basic
Summer Training	Not found			
Other	Basic course			

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

7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
2 nd year	EMB 2205	Embryology	theoretical	practical
			Total hours for annual year semester I, II 30h theory only	0

8. Expected learning outcomes of the program	
Knowledge	
	<p>By the end of the embryology course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the sequential stages of human development from fertilization to birth. 2. Explain the development of organs and systems and their structural and functional maturation. 3. Identify critical periods of development and understand their clinical significance. 4. Correlate embryological development with congenital anomalies and developmental disorders.
Skills	

	<ol style="list-style-type: none"> 1. Interpret embryological diagrams, models, and images accurately. 2. Apply embryological knowledge to understand prenatal diagnosis, teratology, and preventive medicine. 3. Integrate embryology with anatomy, physiology, and pathology for comprehensive clinical understanding. 4. Develop analytical and reasoning skills to explain developmental abnormalities.
Ethics	
	Appreciate the relevance of embryology in clinical practice, genetics, obstetrics, and pediatrics.

9. Teaching and Learning Strategies
<ul style="list-style-type: none"> -The method of lecture and the use of the smart board -Readings, self-learning, panel discussions. -Exercises and activities in the classroom. - Guide students to some websites to benefit from them to develop abilities. <p>Ask the students a set of thinking questions during the lectures such as what, how, when and why</p>

10. Evaluation methods
<p>-Theory</p> <ul style="list-style-type: none"> . Written Examination - Oral Examination - <u>practical</u> - Small group discussion - reports and activities

11. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Assist. Prof	MBCHB	pathology			1	
Assist. Prof	MBCHB	Human anatomy			1	
lecturer	MBCHB	ENT			1	
lecturer	Vet.	embryology			1	

	Medicine					
lecturer	BSc	histology			3	
lecturer	Vet. Medicine	Microbiology			2	
lecturer	BSc	Biology			2	
lecturer	BSC	Microbiology			1	
lecturer	BSc	Plant Bio			1	

Professional Development

Mentoring new faculty members

processes and activities designed to enhance the professional knowledge, skills, and attitudes of educators so that they might, in turn, improve the learning of students.

Professional development of faculty members

creating or sustaining a culture of teaching excellence; advancing new initiatives in teaching and learning; and supporting individual faculty members' goals for professional development.

12. Acceptance Criterion

According to the student's central acceptance rate

13. The most important sources of information about the program

Langman's Medical Embryology, T.W. Sadler, 14th ed., Lippincott Williams & Wilkins, 2018

14. Program Development Plan

A structured program developed plan was prepared to strengthen the medical curriculum and enhanced the overall quality of undergraduate education

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 year	EMB 2205	Embryology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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

Course Description Form

1. Course Name:	
Embryology	
2. Course Code:	
EMB 2205	
3. Semester /	
Year: 2nd year , annual year , semester I,II	
4. Description Preparation	
Date:10/9/2025	
5. Available Attendance Forms:	
Official working hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 h theory for semester (I, and II) / 2 unit total	
7. Course administrator's name (mention all, if more than one name)	
Name: mohammed saeed Email:	
8. Course Objectives	
Course Objectives	<ol style="list-style-type: none"> 1. Introducing the concept of medical embryology. 2. Study the features of early development of embryo. 3. Understanding the basics of birth defects. 4. Mapping the fate of embryonic tissues and organs.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> • Manage the lecture in a way that feels the importance of time. • The method of lecture and the use of the smart board • Readings, self-learning, discussion panels. • Exercises and activities in the classroom. • Guiding students to some websites to benefit from them to develop capabilities. • Asking students, a set of thinking questions during the lectures such as what, how, when and why for specific topics • Sudden daily and weekly continuous tests. • Allocate a percentage of the class for group activities.
10. Course Evaluation	
The method of lecture and the use of the smart board Readings, self-learning, panel discussions. Exercises and activities in the classroom. - Guide students to some websites to benefit from them to develop abilities. Ask the students a set of thinking questions during the lectures such as what, how, when and why	
11. Learning and Teaching Resources	
Required textbooks (curricular book any)	Langman's Medical Embryology, T.W. Sadler, 14 th ed., Lippincott Williams & Wilkins, 2018
Main references (sources)	The Developing Human: Clinically Oriented Embryology, 10 th edition, 2016
Recommended books and references (scientific journals,	http://embryo.soad.umich.edu/

reports...)

Electronic References, Websites

<http://www.embryology.ch/indexen.html>

10. Course Structure		semester I contents			
Assessment	Educational methods	Subjects	Outcome	hours	week
General questions & discussion	theory	Introduction	Definition , etiology , developmental , physiology	1	1
General questions & discussion and quiz	theory	Gametogenesis	Definition , etiology , developmental , physiology	1	2
General questions & discussion and quiz	theory	Gametogenesis	Definition , etiology , developmental , physiology	1	3
General questions & discussion	theory	Ovarian cycle	Definition , etiology , developmental , physiology	1	4
General questions &	Theory	Fertilization	Definition , etiology , developmental , physiology	1	5
General questions & discussion	theory	Second week of development	Definition , etiology , developmental , physiology	1	6
General questions & discussion	theory	Second week of development	Definition , etiology , developmental , physiology	1	7
General questions & discussion	theory	Third week of development	Definition , etiology , developmental , physiology	1	8
General questions & quiz	theory	Third week of development- PBL	Definition , etiology , developmental , physiology	1	9
General questions & discussion	theory	Third to eighth week of development	Definition , etiology , developmental , physiology	1	10
General questions & discussion	theory	Third to eighth week of development PBL	Definition , etiology , developmental , physiology	1	11
General questions & discussion	theory	Third Month to Birth- The Fetus and Placenta	Definition , etiology , developmental , physiology	1	12
General questions & discussion	theory	Third Month to Birth- The Fetus and Placenta PBL	Definition , etiology , developmental , physiology	1	13
General questions & discussion	theory	Revision- PBL	Definition , etiology , developmental , physiology	1	14
		Skin & it's Appendages	Definition , etiology , developmental , physiology	1	15

2nd semester contents		١١. بنية المقرر الكورس الثاني			
طريقة التقييم	طريقة التعليم	اسم الوحدة / أو الموضوع	مخرجات التعلم المطلوبة	الساعات	الأسبوع
General questions & discussion	theory	Skeletal system: Axial skeleton	Definition , etiology , developmental , physiology	1	1
General questions & discussion and quiz	theory	Skeletal system: The limbs	Definition , etiology , developmental , physiology	1	2
General questions & discussion	theory	Ossification centers: PBL	Definition , etiology , developmental , physiology	1	3
General questions &	theory	anatomical review	Definition , etiology , developmental , physiology	1	4
General questions & discussion	theory	Muscular system development PBL	Definition , etiology , developmental , physiology	1	5
General questions & discussion	theory	Body cavities-PBL	Definition , etiology , developmental , physiology	1	6
General questions & discussion	theory	development of the diaphragm	Definition , etiology , developmental , physiology	1	7
General questions & discussion quiz	theory	CVS Respiratory system	Definition , etiology , developmental , physiology	1	8
General questions & discussion	theory	GIT	Definition , etiology , developmental , physiology	1	9
General questions d	theory	Urinary system- PBL	Definition , etiology , developmental , physiology	1	10
General questions & discussion	theory	Genital organs	Definition , etiology , developmental , physiology	1	11
General questions & discussion	theory	Head & neck	Definition , etiology , developmental , physiology	1	12
General questions & discussion	theory	Ear, eye & skin	Definition , etiology , developmental , physiology	1	13
General questions & discussion	theory	CNS-PBL EBM	Definition , etiology , developmental , physiology	1	14
exam	theory	Examination	Assessment	1	15

Examinations description:

Examination	Description
1-Continuous progress test (CPT)	oral examination / spot diagnosis , quizzes , PBL ,Short answered questions, and skills assessment , log book activity , Case report ,homework activity
2- Mid theory exam for each semester	Short answered questions, M.C.Qs. and case presentation with short answer and matching according bloom and blue print
3- Half year theory exam	M.C.Qs. as case sinario or direct question , according bloom and blue print
4-Final year theory exam	M.C.Qs. as case sinario or direct question , according bloom and blue print

The minimum passing grades (Faculty bylaws) is 50 marks.

Re-sit Examinations :- Students who fail in a in the annual year assessment will be required to re-sit (second sitting) the Final theory examination .