

MODULE DESCRIPTION FORM

Module Information			
Module Title	General Biology 2		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	FOR12012		
ECTS Credits	9		
SWL (hr/sem)	225		
Module Level	1	Semester of Delivery	
Administering Department	Forensic Evidence	College	College of Sciences
Module Leader	Dhargam Adel Obaid Hassoon	e-mail	dirgham.ad@uowa.edu.iq
Module Leader's Acad. Title	Assistant Lect.	Module Leader's Qualification	MS. C.
Module Tutor	Dhargam Adel Obaid Hassoon	e-mail	dirgham.ad@uowa.edu.iq
Peer Reviewer Name	Mohammed Abd Ali Hamza	e-mail	Mohammed.ab@uowa.edu.iq
Scientific Committee Approval Date	01/03/2026	Version Number	1.0

Relation with other Modules			
Prerequisite module	General Biology 1	Semester	1
Co-requisites module		Semester	



أ.م.د. شيما د. حسين نونيل
٢٠٢٥ - ٢٠٢٦




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Department Head Approval

Dean of the College Approval

Module Aims, Learning Outcomes and Indicative Contents

Module Aims	<ol style="list-style-type: none"> 1. This module gives students an understanding of the science and techniques that underpin basic biology. 2. Topics covered will include identification of 3. Material covered in lectures will be illustrated through lab work. 4. Highlight in most theories that was deal with biology system for live. 5. Our aim is to provide students with opportunities to develop academically, professionally and personally: to broaden their ambitions, extend their attitudes, challenge their assumptions, and assist towards unlocking their potential to succeed in their studies and future lives.
Module Learning Outcomes	<ol style="list-style-type: none"> 1. Explain the life and Human , laboratory and legal requirements of producing DNA profiles. 2. Summarize what is meant by a basic biology science. 3. Perform interpretation of DNA profiling results, including calculation of likelihood ratios. 4. Critically evaluate DNA profiling results citing significant research in the field. 5. Show an understanding of the scientific basis and utilisation of techniques of bone anthropometry and pathology in the study of human tissue. 6. Identify the tissues and organs in the human body
Indicative Contents	<p>Indicative content includes the following.</p> <p><u>Part A - primary information of biology science</u></p> <p>On completion of this module, students are expected to be able to:</p> <ol style="list-style-type: none"> 1 Demonstrate knowledge of the basic Cell Reproduction , Genetics , Biotechnology, Tissue & Organs in the Human Body , Immunity and Disease 2 Demonstrate knowledge of the structure and function of the four principal tissue types. 3 Demonstrate an understanding of Mendelian genetic inheritance. [15 hrs] 4 Demonstrate understanding of the role of variation in Ecology. [15 hrs] 5 Evolution of the Genetics , Biotechnology. [16 h] 6 Demonstrate an understanding type of Tissue & Organs in the Human Body 7 Demonstrate an understanding Immunity and Disease. [15 hrs] <p><u>Part B - essential and details</u></p>

	<p>Fundamentals</p> <p>To publicise the key learning resources that are important or essential for those studying the module or to demonstrate the academic foundation of the module. To provide a short list, indicating the type and level of information that students are expected to consult. Further, in depth, guidance and a comprehensive list of reading and resources should be made available . [15 hrs]</p> <p>Normally a short list of books or articles in reference format (author, date, title, and publisher). If a core text or textbook exists, this should be indicated. Lists should be indicative, rather than a full bibliography.. [7 hrs]</p> <p>To identify where the whole module may be taken by students at a distance, either by arrangement with the Programme Director or because it forms part of a programme that is wholly or partly delivered virtually. If distance learning is possible, a second module descriptor will need to be created, to identify learning, teaching, assessment and contact methods/support for students in the distance learning version of the module.. [15 hrs]</p>
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Learning and Teaching Strategies	
Strategies	<p>To describe the learning activities of the students and the teaching methods of the staff. Effective module design should result in a varied range of active learning experiences for students, including learning activities which are ‘research-like’. Activities should, of course, motivate and encourage deep learning (reflection on wider meanings, rather than superficial memorisation of information). They should also be varied and flexible enough to accommodate different learning styles and orientations, and allow for inclusivity of students from different backgrounds and with different kinds of learning abilities.</p> <p>Learning activities therefore need to include reference to independent, interdependent (peer- supported) and online activities, as well as participation in different kinds of taught class.</p>

Student Workload (SWL)			
Structured SWL (h/sem)	78	Structured SWL (h/w)	5.2
Unstructured SWL (h/sem)	147	Unstructured SWL (h/w)	9.8
Total SWL (h/sem)	225		

Module Evaluation							
		Time/Number		Weight (Marks)		Week Due	Relevant Learning Outcome
		TH	LAB	TH	LAB		
Formative assessment	Quizzes	2	2	4	10	5 and 11	3,7
	Homework assignment	2	1	4	10	6and 13	1,8
	Onsite Assignments	-	-	-	-	Continuous	All
	Projects	1	7	2	10	14	All
Summative assessment	Midterm Exam	1		10		7	
	Final Exam	3hr		50		15	
Total assessment				100 Marks			

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Cell Reproduction
Week 2	Introduction to Genetics
Week 3	Chromosomes and Human Genetics
Week 4	DNA , Genes and Biotechnology
Week 5	Principles of Ecology
Week 6	Exam Mid-term Exam
Week 7	Tissue , Part 1
Week 8	Tissue , Part 2
Week 9	Organs and Organs System
Week 10	Circulation – Heart and Blood Vessels and Blood
Week 11	Respiration , Digestion System , Urinary System
Week 12	Muscular , Skeleton System
Week 13	Nervous System , Sensory System
Week 14	Immunity and Disease
Week 15	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

	Material Covered
Week 1	Lab 1: Identify the Cell Reproduction
Week 2	Lab 2: Identify the Genetics
Week 3	Lab 3: Identify the Chromosomes and Human Genetics
Week 4	Lab 4: Identify the DNA , Genes and Biotechnology
Week 5	Lab 5: Identify the Principles of Ecology
Week 6	Lab 6: EXAM
Week 7	Lab 7: Microscopic observation of Tissues part 1
Week 8	Lab 8 : Microscopic observation of Tissues part 2
Week 9	Lab 9 : Identify the Organs and Organs System and understand their functions
Week 10	Lab 10: Identify the Circulation – Heart and Blood Vessels and Blood and type of Blood and understand their functions
Week 11	Lab 11: Identify the Respiration , Digestion System , Urinary System and understand their functions
Week 12	Lab 12: Identify the Muscular , Skeleton System and understand their functions
Week 13	Lab 13: Identify the Nervous System , Sensory System and understand their functions
Week 14	Lab 14: Identify type of Disease relationship with immunity
Week 15	Exam

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	FReece J, Urry L, Cain M, Wasserman S, Minorsky P, Jackson, R. (Eds) 9th Global Edition, 2011, Campbell Biology, Pearson Benjamin Cummings.	Yes
Recommended Texts	Human Biology, 12th edition by Sylvia Mader. McGraw Hill Publishing Co., 2008. (10th can be used if necessary) Human Biology, Laboratory Manual by Sylvia Mader, 12th edition, McGraw Hill, 2008. Optional Texts: Anatomy & Physiology Coloring Workbook & Study Guide, 9th edition by Elaine Marieb	No
Websites	https://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402/subject-content	

Grading Scheme				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	<i>Excellent</i>	90 - 100	Outstanding Performance
	B - Very Good	<i>Very Good</i>	80 - 89	Above average with some errors
	C - Good	<i>Good</i>	70 - 79	Sound work with notable errors
	D - Satisfactory	<i>Average</i>	60 - 69	Fair but with major shortcomings
	E - Sufficient	<i>Pass</i>	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	<i>Fail (Under Review)</i>	(45-49)	More work required but credit awarded
	F – Fail	<i>Fail</i>	(0-44)	Considerable amount of work required
<p>Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.</p>				