

نموذج توصيف مقرر
Course Description Form

Name of College\Faculty :

Sciences

اسم الكلية:

Name of Department:

Biological Sciences – Animal Biology Program

اسم القسم العلمي:

Course Name	Animal Diversity-I (Invertebrates) التنوع الحيواني (1)	اسم المقرر
Course No.	0493 – 205	رقم المقرر
No. of Credits	4	عدد الوحدات
Theoretical Hours	3	عدد الساعات النظرية
Practical Hours	3	عدد الساعات العملية
Course topics		مواضيع المقرر

Theoretical

1. Introduction: Invertebrate Classification and Diversity
2. Phylum Porifera (Sponges)
3. Phylum Cnidaria (Corals, Sea Anemone, Jelly fish)
4. Phylum Ctenophora (Comb jellies)
5. Phylum Platyhelminthes (Flat worms)
6. Phylum Nematoda (Round worms)
7. Phylum Annelida (Segmented worms)
8. Phylum Arthropoda (Insects, arachnids, myriapods, crustaceans)
9. Phylum Mollusca (Gastropods, bivalves, cephalopods, scaphopods)
10. Phylum Brachiopoda (Lamp shells)
11. Phylum Echinodermata (Star fish, sea urchins, sea cucumber)

Practical

Students are introduced to live and preserved specimens, and connect theoretical concepts with physical specimens to develop skills in scientific observation, description and drawing.

Lab 1. Introduction and characteristics of the Invertebrates.

Lab 2. Kingdom Protozoa

Lab 3. Phylum Porifera

Lab 4. Phylum Cnidaria + Quiz I

Lab 5. Phylum Platyhelminthes & Phylum Nematoda

Lab 6. Phylum Annelida

Lab 7. Midterm Exam

Lab 8. Phylum Mollusca and Phylum Brachiopoda

Lab 9. Phylum Arthropoda I

Lab 10. Phylum Arthropoda II

Lab 11. Phylum Arthropoda III + Quiz II

Lab 12. Phylum Echinodermata

Lab 13. Final Exam

Text book: (Name, Author , Year , Publisher)	عنوان الكتاب : (الاسم ، المؤلف ، سنة الطبع ، دار النشر)
Hickman, C.P., Roberts, L.S., Keen, S.L., Larson, A. & Eisenhour, D.J. "Animal Diversity". Latest Edition. .Mc Graw-Hill Education.	
References: (Name , Author , Year . Publisher)	عنوان المرجع : (الاسم ، المؤلف ، سنة الطبع ، دار النشر)
Pechenik, J.A. "Biology of the invertebrates". Latest Edition. McGraw-Hill Education.	

Prerequisites:		Biology (I) 0490-101		متطلبات المقرر	
Grading	Exams	40	%		الاختبارات
	Quizzes	5	%		امتحانات قصيرة
	H.W.	5	%		واجبات
	Project (field study)	10	%		مشاريع (دراسة ميدانية)
	Final	40	%		الاختبار النهائي
	100 %				

Course objectives					
No.	Course Objectives (Learning Outcomes)	Example(s) of relevant (Topics and activities)	Recommended Level to satisfy the objectives		
			High	Medium	Low
1	Recognize the diversity of life forms presented by invertebrates.	Bases for invertebrate classification, the major taxa and their diversity.	✓		
2	Classify the major taxa of invertebrates in terms of their anatomy and biology.	Diversity of life forms represented by the invertebrates, biological and ecological adaptation for life in different habitats + Field trips and lab exercises.	✓		
3	Describe the importance of invertebrates in secondary production and their economic importance.	How invertebrates are important links in the food webs and on the importance of some invertebrates as food.	✓		
4	Identify the major threats to invertebrate diversity.	Factor affecting and or threatening the invertebrates such as habitat destruction, pollution and over exploitation.	✓		
5	Relate the importance of invertebrates in biological research.	The medicinal importance of some invertebrates.		✓	
Fields					
Skills					
Coordinator (Name and Rank) :		Amani S. Alzaidan (Assistant Prof.)			
Signature and stamp :		د. أماني س. الزيدان Dr. Amani S. Al-Zaidan كلية العلوم - قسم البيولوجيا Department of Biological Sciences			
Date:		06\ 11 \ 2025			