STANDARD COURSE OUTLINE

Annex 3

Hashemite University		**Practical General Biology for Medical Sciences (180104116) 1 Credit Hour**
Faculty of Science		**Pre-requisite:**
Department of Biology and Biotechnology	**Course Syllabus**	

Course Information	
	Lecture's Time
	Lecture Room
	Instructor
	Office Location
	Office Hours

Text Book
Title: Investigating Biology, Laboratory Manual
Authors: J. G. Morgans & M.E.B. Carter
Publisher: Benjamin Cummings, San Francisco
Year :2011
Seventh edition

References(s)
* Any other book in General Biology

Grading Policy:

Mid-Term Exam	40%
Laboratory quizzes	20%
Final Exam	40%

Course Objectives

Upon successful completion of this introductory coarse in biology (Practical General Biology (2)) , the student will be able to:

1. Differentiate types of Animal tissues and the structure and function of different organs
2. Understand the structure and function of animal Digestive system and skin, in addition to circulatory, respiratory, excretory, reproductive and nervous systems
3. Describe the main stages of animal embryological development.
4. Explain the characteristics of Bacteria
5. Characterize the major groups of Protists and fungi.

Understand Animal Diversity and recognize different animal groups

Teaching and Learning Methods

1. Practical sessions to apply standard techniques in biology.
2. Scientific report writing on the results of practical sessions.
3. Group activities on selected laboratory sessions including preparation of certain plant tissues slides.
4. Demonstrations of certain procedures.
5. Observing living and preserved specimens used in learning biodiversity.

Course Contents

Week	Topic
1	Lab rules & basic tools and instruments used in General Biology Laboratory & How to Write Scientific Report
2	Microscopes and Cells
3	Microscopes and Cells
4	The Organization of Cells
5	Diffusion & Osmosis
6	Mitosis
7	Histology I: Epithelial tissue, Connective tissue
8	Histology II: Skin, Muscular tissue, Nerve tissue
9	**Mid-Term Exam**
10	Vertebrate Anatomy

	11	Animal Development I : Sea Star, Sea Urchin
	12	Animal Development II: Frog
	13	Animal Development II: Frog
	14	**Final Exam**