



# Course Specifications

<b>Course Title:</b>	<b>Parasitology</b>
<b>Course Code:</b>	<b>23074465-3</b>
<b>Program:</b>	<b>BSc Biology</b>
<b>Department:</b>	<b>Biology</b>
<b>College:</b>	<b>Aljumum University College</b>
<b>Institution:</b>	<b>Umm Al-Qura University</b>

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## A. Course Identification

<b>1. Credit hours:</b> 3 hours
<b>2. Course type</b>
a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
<b>3. Level/year at which this course is offered:</b> Level 7/ 4 <sup>th</sup> year.
<b>4. Pre-requisites for this course (if any):</b> Invertebrates (23072261-3).
<b>5. Co-requisites for this course (if any):</b> None

### 6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	√	70%
2	Blended		
3	E-learning	√	10%
4	Correspondence	√	10%
5	Other	√	10%

### 7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
<b>Contact Hours</b>		
1	Lecture	28
2	Laboratory/Studio	42
3	Tutorial	6
4	Practical/Field work/Internship	6
5	Others (specify)	10
	<b>Total</b>	<b>92</b>
<b>Other Learning Hours*</b>		
1	Study	
2	Assignments	
3	Library	
4	Projects/Research Essays/Theses	
5	Others (specify)	
	<b>Total</b>	

\* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

## B. Course Objectives and Learning Outcomes

### 1. Course Description

This course presents general concepts of parasitology, knowledge of some parasitic diseases that could be transmitted between animals and man (zoonotic diseases), knowledge about how to protect man and domestic animals from parasites and their treatment in case of infection. Basic knowledge of parasitism, the different biological inter-relationships and the host parasite relationships.

### 2. Course Main Objective

- General concept of parasitology.
- Knowledge of some parasitic diseases that could be transmitted between animals and man (Zoonotic diseases).
- Knowledge how to protect man and domestic animals from parasites and their treatment.
- Basic knowledge of parasitism, the different biological inter-relationships and the host parasite relationships.
- Knowledge of different parasitic examples from all phyla (Protozoa & Metazoa), their morphology, biology, life cycles, diagnosis, treatment & control.
- Dissemination of health awareness of these parasitic diseases.

### 3. Course Learning Outcomes

CLOs		Aligned PLOs
<b>1</b>	<b>Knowledge:</b>	
1.1	<ul style="list-style-type: none"> <li>• Identify parasitism, parasites and their examples.</li> <li>• Describe parasitic diseases and modes of diagnosis.</li> <li>• Trace control of parasitic infections.</li> <li>• Understand host-parasite relationship.</li> </ul>	
<b>2</b>	<b>Skills:</b>	
2.1	<ul style="list-style-type: none"> <li>• Right use of microscopes.</li> <li>• Identification and description of parasites.</li> <li>• Using computers and internet.</li> <li>• Characterize methods of resistance and appropriate treatment for each disease.</li> <li>• Conducting documentary about some parasites throughout the Kingdom.</li> </ul>	
<b>3</b>	<b>Competence:</b>	
3.1	<ul style="list-style-type: none"> <li>• Ability to work in a team to conduct a specific project.</li> <li>• Conducting a specific project with minimal supervision.</li> <li>• Communicating results of work to others.</li> </ul>	

## C. Course Content

List of Topics	No. of Weeks	Contact Hours
<ul style="list-style-type: none"> <li>An introduction to Parasitology, biological relationship, types of parasitism. General knowledge of parasites from the different phyla</li> </ul>	1	2
<ul style="list-style-type: none"> <li>Subkingdom Protozoa</li> <li>Phylum Sarcomastigophora (<i>Entamoeba histolytica</i>, <i>Giardia</i>, <i>Trichomonas vaginalis</i>, <i>Trypanosoma</i>, <i>Leishmania</i>).</li> <li>Ciliophora (<i>Balantidium coli</i>)</li> <li>Apicomplexa (<i>Plasmodium</i>)</li> </ul>	5	10
<ul style="list-style-type: none"> <li>Subkingdom Metazoa</li> <li>An Introduction to Helminths and their characters</li> <li>Phylum Platyhelminthes (<i>Schistosoma mansoni</i>, <i>Schistosoma haematobium</i>, <i>Fasciola</i>, <i>Taenia saginata</i>, <i>Taenia solium</i>, <i>Echinococcus granulosus</i>)</li> <li>Phylum Nematelminthes (<i>Ascaris lumbricoides</i>, <i>Ancylostoma duodenale</i>, <i>Trichinella spiralis</i>)</li> <li>Phylum Arthropoda (<i>Cimex lectularis</i>, <i>Ctenocephalides canis</i>, <i>Pulex irritans</i>, <i>Pediculus humanus</i>, <i>Rhipicephalus sanguineus</i>, <i>Sarcoptes scabiei</i>).</li> </ul>	6	12
<ul style="list-style-type: none"> <li>General revision + Power point presentation about different parasites.</li> </ul>	1	4
<b>Total</b>		<b>28h</b>

## D. Teaching and Assessment

### 1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	<b>Knowledge</b>		
1.1	<ul style="list-style-type: none"> <li>Identify parasitism, parasites and their examples.</li> <li>Describe parasitic diseases and modes of diagnosis.</li> <li>Trace control of parasitic infections.</li> <li>Understand host-parasite relationship.</li> </ul>	<ul style="list-style-type: none"> <li>In-class lecturing (using PowerPoint and illustrations).</li> <li>Activities and assignments.</li> <li>Using social media (Facebook and Twitter) to raise awareness of health for some parasites.</li> </ul>	<ul style="list-style-type: none"> <li>Periodical exam and reports.</li> <li>Mid-term exam.</li> <li>Final exam.</li> </ul>

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
2.0	<b>Skills</b>		
2.1	<ul style="list-style-type: none"> <li>• Right use of microscopes.</li> <li>• Identification and description of parasites.</li> <li>• Using computers and internet.</li> <li>• Characterize methods of resistance and appropriate treatment for each disease.</li> <li>• Conducting documentary about some parasites throughout the Kingdom.</li> </ul>	<ul style="list-style-type: none"> <li>• Use of labeled drawings and illustrations.</li> <li>• Activities and assignments.</li> </ul>	<ul style="list-style-type: none"> <li>• Major and final exams.</li> <li>• Evaluation of lab reports.</li> <li>• Evaluation of Activities and assignments.</li> </ul>
3.0	<b>Competence</b>		
3.1	<ul style="list-style-type: none"> <li>• Ability to work in a team to conduct a specific project.</li> <li>• Conducting a specific project with minimal supervision.</li> <li>• Communicating results of work to others.</li> </ul>	<ul style="list-style-type: none"> <li>• Work independently.</li> <li>• Work as part of a team.</li> <li>• Assessment of a page on the social networking sites to raise awareness of health for some parasites.</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of group projects.</li> <li>• Evaluation of projects conducted individually.</li> </ul>

## 2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Periodical exam, Home works, search or presentation	4th and 8th weeks	10 %
2	Midterm "Written Test (1)"	8th week	20%
	Midterm "Practical Test"	9th week	10 %
3	Final Exam "Practical Test"	15th week	20%
4	Final Exam "Written Test (2)"	16th week	40%
5			
6			
7			
8	<b>Total</b>		100 %

\*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

## E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

Office hours: two hrs/week

## F. Learning Resources and Facilities

### 1. Learning Resources

<b>Required Textbooks</b>	Schmidt, Roberts “Foundations of Parasitology
<b>Essential References Materials</b>	
<b>Recommended Books and Reference Material (Journals, Reports, etc) (Attach List)</b>	Mehlhorn H. (2008): Encyclopaedia of parasitology. Chiodini <i>et al.</i> (2001): Atlas of medical helminthology and ProtoZoology. Roberts et al. (2004): Foundation of parasitology.
<b>Electronic Materials</b>	
<b>Other Learning Materials</b>	Microsoft Office Package.

### 2. Facilities Required

Item	Resources
<b>Accommodation</b> (Classrooms, laboratories, demonstration rooms/labs, etc.)	<ul style="list-style-type: none"> <li>• Class rooms are already provided with data show</li> <li>• Equipped laboratories.</li> <li>• Reduce the number of students in class rooms.</li> <li>• Find a solution for the air conditioning problem.</li> </ul>
<b>Technology Resources</b> (AV, data show, Smart Board, software, etc.)	Providing class rooms with computers.
<b>Other Resources</b> (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	<ul style="list-style-type: none"> <li>• Light microscopes.</li> <li>• Microscopically preparations of different parasites.</li> </ul>

## G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Strategies for Obtaining Feedback on Effectiveness of Teaching	Students	<ul style="list-style-type: none"> <li>• Distribution of questioners for course evaluation by students.</li> <li>• Students-faculty meetings.</li> </ul>
Other Strategies for Evaluation of Teaching	by the Instructor or by the Department	<ul style="list-style-type: none"> <li>• Self-evaluation of the program by the department.</li> <li>• Peer consultation by departmental course committee</li> </ul>
Processes for Improvement of	Instructors	<ul style="list-style-type: none"> <li>• Installation of modern</li> </ul>

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Teaching		<p>microscopes.</p> <ul style="list-style-type: none"> <li>Implementation of suggestions by departmental specialized committee.</li> </ul>
Processes for Verifying Standards of Student Achievement	Instructors/ department	<p>Reviewing assessments by staff member/chairman/special committee when required and instructed by higher administration at the end of each semester</p>
arrangements for periodically reviewing course effectiveness	Instructors/ department	<ul style="list-style-type: none"> <li>Comparison of course with equivalent courses.</li> <li>Reviewing course topics annually by the departmental specialized committee.</li> <li>Refreshment of teaching resources to ensure updating of knowledge.</li> <li>Use of statistics for course evaluation by students to improve the course.</li> </ul>

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

**Assessment Methods** (Direct, Indirect)

## H. Specification Approval Data

Council / Committee	
Reference No.	
Date	

**Head of Department**

  
Dr. Wessam M. Filfilan

**Stamp**

