

Course Competency

MLT 2440 CLINICAL MICROBIOLOGY 1

Course Description

This course is designed to provide working knowledge of parasitology and mycology procedures that are identified in MLT 2440 L. Contents include identification procedures for commonly encountered ova and parasites, yeast and molds. Clinical manifestations of disease states and treatment are discussed. Parasites life cycle and identification characteristics are also included.

Course Competency	Learning Outcomes
Competency 1: The student will demonstrate knowledge and comprehension of clinical parasites belonging to the class Protozoa by:	 Communication Critical thinking Information Literacy
 Differentiating between cysts and trophozoites stages of Protozoa, on the basis of morphological criteria. Stating any vector or intermediate host involved in the transmission of protozoan diseases Stating the kind of diseases associated with protozoan infection Discussing the medical importance of accurate identification of protozoa in humans. Identifying the diagnostic stages of Protozoa from photographs or direct specimens. Differentiating the life cycle of Plasmodium organisms. Stating the common names and scientific names of the organisms studied 	
Competency 2: The student will demonstrate knowledge and comprehension of clinical parasites belonging to the class Nematoda by:	
Differentiating between eggs of commonly encountered Nematodes, and the body	

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specimen of choice for recovery. 2. Stating the kind of diseases associated with nematode infection 3. Discussing the different ways Nematodes can infect humans including the infective and diagnostic stages. 4. Describing the life cycle of intestinal nematodes from the egg to the adult 5. Stating the common names and scientific names of the organisms studied	
Competency 3: The student will demonstrate	
knowledge and comprehension of clinical parasites	
belonging to the class Cestoda by:	
belonging to the class cestoda by.	<u> </u>
Differentiating between eggs of commonly encountered Cestodes, and the body specimen of choice for recovery.	
2. Stating the kind of diseases associated with tapeworm infection	
3. Discussing the different ways Cestodes	
can infect humans including the infective	
and diagnostic stages and method of	
infection	
4. Identifying the diagnostic stages of	
Cestodes from photograph, illustration or	
direct specimen	
5. Differentiating morphologically between	
adult cestodes	
6. Stating the common names and scientific	
names of the organisms studied	
Competency 4: The student will demonstrate	
knowledge and comprehension of clinical parasites	
belonging to the class Digenea by:	
1. Differentiating between the Cestoda and	
Digenea as organisms belonging to the	
Phylum Platyhelminthes	
2. Stating scientific and common names of	
the flukes.	
3. Using morphology differentiate adult	
Digenea	
4. Stating the kind of diseases associated	
with Digena infection	
5. Discussing the different ways flukes can	
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infect humans including the infective and diagnostic stages and method of infection 6. Identifying the diagnostic stages of the flukes studied from photograph, illustration or direct specimen.	
Competency 5: The student will demonstrate comprehension and application of clinical yeast and molds by:	
 Comparing and contrasting the identifying characteristics of commonly encountered clinical Dermatophytes, saprophytic, opportunistic and dimorphic fungi Describing the physical and biochemical characteristics used for the identification and classification of pathogenic yeast. Stating the pathogenesis of the common yeast found in clinical specimens 	

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