



### Parasitology

Course Code	Course Num.	Course Name	Credit Hours	Lec.	Lab	Tut	Prerequisites
BIO	343	Parasitology	3	2	2	0	BIO242

#### **Objectives:**

By the end of this course, the student must be able :-

- To develop an understanding of and appreciation for the nature of parasitic associations.
- To develop an understanding of the terminology used in parasitology.
- To understand the ecology and life cycles of a variety of host-parasite associations.
- To develop an understanding of the modifications (physiological, morphological, and behavioural) needed to assume a parasitic lifestyle.

#### **Syllabus:**

- Course Introduction
- Terminology, structures, major life cycle events, and systematics
- Amoebae .
- Flagellates (intestinal and urogenital)
- Hemoflagellates of humans, Trypanosomes: trypanosomiasis & world affairs, African and American trypanosomiasis.
- Apicomplexa .
- Plasmodium
- Introduction to Trematoda , General: Adult anatomy/ reproductive biology; life cycles/development
- .Schistosomes ,Other Trematodes,
- Cestodes ,Nematodes
- Enterobia,Trichinella, Filariasis,
- Parasitism and World Affairs
- Molecular techniques in control and prevention of parasitic disease Why are there no vaccines?

#### **References:**

- Roberts & Janvy. Foundations of Parasitology, 8th edition,(2008). ISBN-13: 978-0073028279.2015.
- Ruth Leventhal and Russell F. Cheadle (2011) Medical Parasitology. A self-instructional text (6th edition) X. F.A. Davis Co., Philadelphia ISBN: 080362543.
- Practical guide to diagnostic parasitology (2nd edition) American Society for Microbiology, Washington DC, USA.ISBN: 1555814573.

