

Course Information

Course Prefix No.:	MLT 112
Course Title:	Introduction to Parasitology
Lecture hrs/wk:	2.0
Lab hrs/wk:	0.0
Credit hrs/sem:	2.0

DL Attendance/VA Statement Textbook Information

Entry Level Skills: Students should have a basic knowledge of the metric system, scientific notation, centrifuges, the microscope, pipetting, and the guidelines for laboratory safety.

Prerequisite: None*

Co-requisite: None*

*Note: MLT classes must be taken in accordance with the curriculum display as outlined in the college catalog and MLT program handbook.

Course Description: This course provides an introductory study of human parasites, including classification, life cycles, and differential morphology of the medically important parasites.

In addition, attention is given to those classified as Protozoa, Nematoda, Cestoda, and Digenea. Specimen collection and specimen handling are also included in this study.

Course Competencies:

Upon completion of this course the student will be able to:

1. Describe the distinguishing characteristics of the trophozoite and cyst stages of the major medically important Protozoa, and review their life cycles.
2. Trace the development of the malarial parasite in man and the mosquito, and list the distinguishing characteristics of Plasmodium vivax, ovale, malariae, and falciparum.
3. List the diagnostic criteria for the major medically important intestinal and tissue Nematodes, and trace their life cycles.
4. Recite the life cycles of the major medically important Tapeworms, describing their scolices, proglottids, and ova.
5. Recite the life cycles of the major medically important Flukes, describing the morphology and ova of each.
6. Review the proper techniques for specimen collection, and describe the procedures for studying specimens in the laboratory.
7. Identify protozoa, ova, and malarial parasites on Kodachrome slides and on prepared microscope slides.
8. Demonstrate professionalism in dress, conduct, and attitude.

Performance Objectives:

1. Using diagrams and distance learning modules, the student will describe the life cycles of the major medically important protozoa.
2. Given distance learning modules and drawings, the student will trace the life cycle of the malarial parasite and will name the differential characteristics of each major species.
3. Given distance learning modules and drawings, the student will review the life cycles of the major medically important intestinal and tissue Nematodes, citing their morphological characteristics.
4. Utilizing distance learning modules and drawings provided, the student will trace the life cycles of the major medically important Tapeworms, and compare their morphologies.
5. Given distance learning modules and diagrams, the student will describe the general life cycles of the flukes, and review the morphology of each species.
6. Utilizing information obtained from online material and the textbook, the student will describe the appropriate techniques for specimen collection and examination of parasites.
7. Utilizing Internet slides and prepared microscope slides, the student will identify protozoa, ova, and malarial parasites in peripheral blood smears.
8. Utilizing information obtained in MLT 101 on professionalism, the student will display appropriate dress, conduct, and attitude at all times.

Note: For further objectives, refer to learning objectives at the beginning of each chapter of the text.

Course Requirements:

1. This course is presented in a hybrid format. The didactic portion is offered online through WebCT. Classroom sessions will be held every other week to review online material and to observe parasites utilizing the microscope and Internet resources. Students must attend 90% of the classroom sessions.
2. Students will adhere to the student code of conduct as described in the York Technical College Catalog and Handbook. Students will conduct themselves with dignity and maintain high standards of responsible citizenship. Any student caught cheating or involved in any other academic dishonesty will be given a grade of zero and will be subject to further disciplinary action.

Evaluation Strategies/ Grading:

1. Attend 90% of the review sessions
2. Take and pass four (4) written tests.

3. Perform all exercises at a satisfactory level according to guidelines set by the instructor.

Classroom exercises will be graded as S or U (Satisfactory or Unsatisfactory). If a U is received on any exercise, it must be repeated until an S is obtained. When all exercises have been satisfactorily completed, a score of 95 will be counted as 1 test grade.

The grade for the course is determined by an average of the four test scores and the score for the exercises. An average of 70 or better must be attained in order to pass the course.

Grading Scale:

90 – 100	= A
80 – 89	= B
70 – 79	= C
< 70	= F

Effective:SU2005