

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER: MLT 1440C

COURSE TITLE: Parasitology/Mycology

PREREQUISITE(S): None

COREQUISITE(S): None

CREDIT HOURS: 2

CONTACT HOURS/WEEK: 3

CONTACT HOUR BREAKDOWN:

Lecture/Discussion:

Laboratory:

Other _____: 3 (Lecture/laboratory combination)

FACULTY WORKLOAD POINTS: 3

STANDARDIZED CLASS SIZE ALLOCATION: 20

CATALOG COURSE DESCRIPTION:

This course presents students with instruction in the taxonomy, life cycles, identification, and pathogenesis of the clinically significant parasitic agents. The course also includes the taxonomy, identification, pathogenesis and laboratory procedures associated with the clinically significant fungi.

SUGGESTED TEXT(S):

Leventhal & Cheadle. Medical Parasitology: A Self Instructional Text, Current Ed., F.A. Davis

Beneke & Rogers, Medical Mycology and Human Mycoses, Star Publishing Co., Current Edition

IMPLEMENTATION DATE: January, 1989

REVIEW OR MODIFICATION DATE: Fall Term, 1996 (971)
Fall Term, 2002 (20031)
Fall Term, 2008 (20091) - Outline Review 2007

COURSE TOPICS	<u>CONTACT HOURS PER TOPIC</u>
I. Introduction	3
A. Lab Safety	
B. Use of the Microscope	
C. Terminology	
D. Overview of Parasitology/Myology	
II. Anatomy and Physiology of Digestive Tract	3
A. Structure	
B. Function	
C. Disorders	
D. Lab Testing and Differential Diagnosis	
E. Analysis of Gastric Fluid	
F. Analysis of Duodenal Drainage	
III. Fecal Analysis	6
A. Normal and Abnormal Substances	
B. Gross Examination	
C. Microscopic Examination	
D. Chemical Testing	
IV. Parasitic Protozoa	9
A. Terminology	
B. Amoeba	
C. Flagellates & Ciliates	
D. Hemoflagellates	
E. Sporozoa	
F. Coccidia and Miscellaneous Protozoa	
V. Metazoa	9
A. Nematelminthes	
B. Platyhelminthes	
C. Arthropods	
VI. Mycology Overview	6
A. Introduction	
B. Taxonomy	
C. Laboratory Identification	
VII. Mycology: Clinical Correlations	9
A. Opportunistic Mycoses	
B. Superficial Mycoses	
C. Dermatmycoses	
D. Subcutaneous Mycoses	
E. Systemic Mycoses	

PROGRAM TITLE: Medical Laboratory Technology

COURSE TITLE: Parasitology/Mycology

CIP NUMBER: 0317.030900

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

25.0 DISCUSS ANATOMY AND PHYSIOLOGY OF THE HUMAN BODY AS IT RELATES TO THE FIELD OF MEDICAL LABORATORY TECHNOLOGY -- The student will be able to:

25.02 Explain the physiology processes in the human system necessary to influence and maintain homeostasis.

26.0 DISCUSS THE GENERAL RESPONSIBILITIES AND FUNCTIONS ENCOUNTERED BY A MEDICAL TECHNICIAN -- The student will be able to:

26.01 Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solutions of such questions.

26.02 Organize and communicate the results obtained by observation and experimentation.

26.03 Demonstrate ability to evaluate and draw conclusions.

26.04 Demonstrate knowledge of anatomy and physiology of body systems.

26.05 Demonstrate ability to report observations in written or oral form.

27.0 APPLY QUALITY ASSURANCE PRINCIPLES AND SAFETY PROTOCOLS -- The student will be able to:

27.01 Recognize specimen suitability and determine need for rejection/recollection using factors described in clinical protocol.

27.02 Describe special procedures for transporting and processing specimens.

27.03 Describe clinical laboratory role in providing quality assurance in laboratory testing, reporting, and use and maintenance.

27.04 Demonstrate all required calibration procedures.

27.05 Demonstrate and record all quality control procedures unacceptable results.

27.06 Identify and report problems encountered in daily quality control according to standard operating procedures.

27.07 Adhere to current OSHA regulations regarding laboratory hazards.

31.0 DEMONSTRATE KNOWLEDGE OF MICROBIOLOGICAL PRINCIPLES AND PROCEDURES -- The student will be able to:

31.11 Discuss collection and handling specimens for fungal, mycobacterial and viral specimens.

31.12 Prepare and examine specimens, and identify ova and parasites as indicated.

LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S): TITLES(S):

40.0 DEMONSTRATE KNOWLEDGE OF ADVANCED MICROBIOLOGICAL PRINCIPLES AND PROCEDURES --
The student will be able to:

- 40.02 Classify fungi and state their clinical significance.
- 40.03 Perform general techniques used in identifying fungi.
- 40.04 Identify selected fungi.
- 40.06 Identify life cycles, modes of transportation, prevention and pathophysiology of clinically significant parasites.



NOTE: Use either the Tab key or mouse click to move from field to field. The box will expand to accommodate your entry.

Section 1 COURSE PREFIX AND NUMBER: <u>MLT 1440C</u>	SEMESTER CREDIT HOURS (CC): <u>2</u> CONTACT HOURS (NCC): _____
COURSE TITLE: <u>Parasitology/Mycology</u>	

Section 2
TYPE OF COURSE: (Click on the box to check all that apply)

<input type="checkbox"/> AA Elective	<input checked="" type="checkbox"/> AS Required Professional Course	<input type="checkbox"/> College Prep
<input type="checkbox"/> AS Professional Elective	<input checked="" type="checkbox"/> AAS Required Professional Course	<input type="checkbox"/> Technical Certificate
<input type="checkbox"/> Other _____	<input type="checkbox"/> PSAV	<input type="checkbox"/> Apprenticeship
<input type="checkbox"/> General Education: (For General Education courses, you must also complete Section 3 and Section 7)		

Section 3 (If applicable)
INDICATE BELOW THE DISCIPLINE AREA FOR GENERAL EDUCATION COURSES:

<input type="checkbox"/> Communications	<input type="checkbox"/> Social & Behavioral Sciences	<input type="checkbox"/> Mathematics
<input type="checkbox"/> Natural Sciences	<input type="checkbox"/> Humanities	

Section 4
INTELLECTUAL COMPETENCIES:

<input checked="" type="checkbox"/> Reading	<input type="checkbox"/> Speaking	<input checked="" type="checkbox"/> Critical Analysis	<input checked="" type="checkbox"/> Quantitative Skills	<input type="checkbox"/> Scientific Method of Inquiry
<input type="checkbox"/> Writing	<input type="checkbox"/> Listening	<input type="checkbox"/> Information Literacy	<input type="checkbox"/> Ethical Judgment	<input type="checkbox"/> Working Collaboratively

	LEARNING OUTCOMES	METHOD OF ASSESSMENT
•	Demonstrate knowledge of the human digestive system	Quizzes
•	Explain and apply major concepts in parasitology and mycology	Quizzes and Tests
•	Use critical analysis to identify unknown parasites, yeasts and molds	Instructor observation, practical exam to demonstrate competency, lab reports
•	Demonstrate required lab skills	Lab reports and instructor observation
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Section 6

Name of Person Completing This Form: Rhoda Jost Date: 11/1/2007