

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER: MLT 2840L

COURSE TITLE: Histotechnology Practicum I

PREREQUISITE(S): None

COREQUISITE(S): None

CREDIT HOURS: 5

CONTACT HOURS/WEEK: 18

CONTACT HOUR BREAKDOWN:

Lecture/Discussion:

Laboratory: 18

Other _____:

FACULTY WORKLOAD POINTS: Calculated on the # of students in the internship

STANDARDIZED CLASS SIZE ALLOCATION: 20

CATALOG COURSE DESCRIPTION:

Assigned to both the student lab and to a clinical affiliate of the histologic technology program, students will be instructed in current laboratory procedures and instrument use appropriate for developing entry-level career skills as a histotechnologist. The supervised learning experiences are under the coordination and responsibility of the program faculty.

SUGGESTED TEXT(S): Sheehan, D.C. and Hrapchak, B.B. Theory and Practice of Histotechnology 2nd Ed., Battelle Press: 1987

IMPLEMENTATION DATE: Fall Term, 1990 (911)

REVIEW OR MODIFICATION DATE: Fall Term, 1996 (971)
Fall Term, 2000
Fall Term, 2008 (20091) - Outline Review 2007

COURSE TOPICS	<u>CONTACT HOURS PER TOPIC</u>
I. The Histology Laboratory	20
A. Professional Amenities/Ethics	
B. Laboratory Protocol	
C. Laboratory Safety	
D. Personnel Functions and Responsibilities	
II. Quality Assurance	20
A. Specimen Accessioning	
B. Specimen Evaluation	
C. Record-Keeping	
III. Grossing Assistance	8
A. Specimen Accessioning	
B. Record-Keeping	
C. Specimen Handling and Preparation; Labeling	
IV. Tissue Processing	38
A. Fixation Techniques	
B. Dehydration Techniques	
C. Clearing Techniques	
D. Routine Embedding Techniques	
V. Tissue Cutting	38
A. Sectioning	
B. Microtome Maintenance and Operation	
C. Cutting Techniques	
VI. Mounting and Slide Preparation	19
A. Mounting Media	
B. Coverslipping Techniques	
VII. Routine Stains	96
A. Reagent Preparation	(24)
B. Staining Procedures	(48)
C. Evaluation of Staining	(24)

COURSE TOPICS (Continued)		CONTACT HOURS <u>PER TOPIC</u>
VIII.	Laboratory Operations	15
	A. Maintenance of Instruments	
	B. Biohazardous Waste Procedures	
	C. Chemical Waste Management	
	D. General Cleaning and Inventory Management	
IX.	Data Management	16
	A. Patient Records	
	B. Specimen Filing	
	C. Reporting Techniques/Procedures	

PROGRAM TITLE: Histologic Technology
COURSE TITLE: Histotechnology Practicum I
CIP NUMBER: 0317.030800

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

- 12.0 IDENTIFY THE ANATOMIC STRUCTURE AND FUNCTION OF BODY SYSTEMS IN RELATION TO DISEASE STATES AND SERVICES PERFORMED BY THE HISTOTECHNICIAN - The student will be able to:
- 12.01 Demonstrate knowledge of human anatomy and physiology as related to histotechnology.
 - 12.02 Demonstrate knowledge of normal histology of human organs.
 - 12.03 Demonstrate knowledge of various methods of obtaining histological specimens from patients.
 - 12.04 Identify tissue structures and cellular components; relate both to physiological functions.
 - 12.05 Demonstrate knowledge of types of histological specimens usually submitted for gross and microscopic examination.
 - 12.06 Demonstrate knowledge of the processing of histologic specimens especially as related to disease processes.
 - 12.07 Demonstrate knowledge of tissue processing methods, including variety of fixatives used and how each relates to a specific entity or disease process to be diagnosed.
- 13.0 PRACTICE QUALITY ASSURANCE, SAFETY AND ACCEPTABLE COMMUNICATION SKILLS - The student will be able to:
- 13.01 Practice quality control in the histology laboratory as required by the accrediting agency.
 - 13.02 Follow institutional policies and procedures related to safety.
 - 13.03 Practice acceptable laboratory safety.
 - 13.04 Demonstrate knowledge of diagnostic terminology.
 - 13.05 Recognize errors and their sources, and take corrective action.
 - 13.06 Demonstrate knowledge of chemical hazards within the histopathology laboratory.
 - 13.07 Demonstrate knowledge of chemical hazards within the histopathology laboratory.
 - 13.08 Demonstrate knowledge of proper disposal methods for all chemical and biological waster within the histopathology laboratory.
- 14.0 ADHERE TO LEGAL AND ETHICAL PRINCIPLES RELATED TO THE PRACTICE OF HISTOTECHNOLOGY - The student will be able to:
- 14.01 Practice discretion and confidentiality in regard to Laboratory reports.
 - 14.02 Demonstrate knowledge of the histotechnician's role and responsibilities in relation to the health care team.
 - 14.03 Demonstrate knowledge of the legal ramifications of clinical practice.

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

15.0 RECEIVE TISSUE SPECIMENS AND PERFORM PREPARATION TECHNIQUES AS INDICATED - The student will be able to:

- 15.01 Evaluate, accept, identify and label histologic specimens.
- 15.02 Perform the most advantageous preparation and staining techniques.
- 15.03 Solve problems in staining and preparation procedures.
- 15.04 Evaluate and implement new preparation and staining procedures.
- 15.05 Distinguish between well-prepared and stained and poorly-prepared and stained histologic specimens.
- 15.06 Identify tissue structures and their staining characteristics.

16.0 ASSIST WITH FROZEN SECTION PROCEDURES - The student will be able to:

- 16.01 Demonstrate cryostat cutting.
- 16.02 Demonstrate rapid hematoxylin and eosin staining.
- 16.03 Process consultation report, slides and tissues.

17.0 MAINTAIN EQUIPMENT - The student will be able to:

- 17.01 Perform preventive and corrective maintenance of equipment and instruments within specified limits.
- 17.02 Refer to appropriate person(s) for complex repairs.
- 17.03 Demonstrate knowledge of laboratory management.

