

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER: MLT 2194L
 COURSE TITLE: Histotechniques III Lab
 PREREQUISITE(S): None
 COREQUISITE(S): None
 CREDIT HOURS: 1
 CONTACT HOURS/WEEK: 2

CONTACT HOUR BREAKDOWN:

Lecture/Discussion:

Laboratory: 2

Other _____:

FACULTY WORKLOAD POINTS: 1.6

STANDARDIZED CLASS SIZE
ALLOCATION: 20

CATALOG COURSE DESCRIPTION:

This course is a continuation of Histotechniques II Lab. Students will explore unique areas of the field of histology, such as flow cytometry and advanced immunohistochemistry. Emphasis will be placed on troubleshooting special stains and procedures.

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

Carson, Histotechnology. ASCP 1990

IMPLEMENTATION DATE: Fall Term, 1997 (981)

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

COURSE TOPICS	CONTACT HOURS <u>PER TOPIC</u>
I. Overview	2
A. Review of Lab Safety B. Review of Quality Assurance C. Review of Instrument Maintenance	
II. Special Stains	9
A. Review of Procedures B. Advanced Troubleshooting C. Establishing New Procedures In Lab D. Selection of Control Tissues E. Selected Advanced Special Stains	
III. Immunohistochemistry	9
A. Selected Techniques B. Troubleshooting C. Testing New Antibodies	
IV. Flow Cytometry - Observation in Field	4
V. Cytoprep	6
A. Gyn & Non-Gyn Prep Stains B. Observation in Field	

PROGRAM TITLE: Histologic Technology
 COURSE TITLE: Histotechniques III
 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:
- 12.03 Demonstrate knowledge of various methods of obtaining histological specimens from patients.
 - 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, especially variety of fixatives used, as 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.
 - 13.06 Recognize errors and their sources, and take corrective action.
 - 13.07 Demonstrate knowledge of chemical hazards within the histopathology laboratory.
 - 13.08 Demonstrate knowledge of proper disposal methods for all chemical and biological waste within the histopathology laboratory.
- 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.
 - 15.05 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.

LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S): TITLES(S):

17.0 MAINTAIN EQUIPMENT -- The student will be able to:

17.01 Perform preventive and corrective maintenance of equipment and instruments within specified limits.



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 2194L</u>	SEMESTER CREDIT HOURS (CC): <u>1</u> CONTACT HOURS (NCC): <u>2</u>
COURSE TITLE: <u>Histotechniques III Lab</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 checked="" type="checkbox"/> Speaking	<input checked="" type="checkbox"/> Critical Analysis	<input checked="" type="checkbox"/> Quantitative Skills	<input checked="" type="checkbox"/> Scientific Method of Inquiry
<input checked="" type="checkbox"/> Writing	<input checked="" type="checkbox"/> Listening	<input checked="" type="checkbox"/> Information Literacy	<input type="checkbox"/> Ethical Judgment	<input checked="" type="checkbox"/> Working Collaboratively

Section 5		
	LEARNING OUTCOMES	METHOD OF ASSESSMENT
•	Apply principles of immunohistochemistry to the use of an automated immunostainer	Observation, lab quiz
•	Apply mathematical calculations to the preparation of the antibodies and stains for IHC	Discussion, observation, lab quiz
•	Perform selected advanced special stains following written procedures and oral instructions	Observation, lab quiz
•	Demonstrate correct safety procedures for handling chemical, biological, and physical lab hazards	Observation, lab quiz
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Section 6
Name of Person Completing This Form: Merry A. Carter Date: 3/17/2008