

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	MLT 2841L
COURSE TITLE:	Histotechnology Practicum II
PREREQUISITE(S):	None
COREQUISITE(S):	None
CREDIT HOURS:	7
CONTACT HOURS/WEEK:	24
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	
Laboratory:	24
Other _____:	
FACULTY WORKLOAD POINTS:	Calculated on the # of students in the internship
STANDARDIZED CLASS SIZE ALLOCATION:	20
CATALOG COURSE DESCRIPTION:	
	This course is a continuation of Histotechnology Practicum I. Students continue in their assigned clinical affiliate under the coordination and supervision of the program.
SUGGESTED TEXT(S):	Sheehan, D.C. and Hrapchak, B.B. <u>Theory and Practice of Histotechnology</u> , 2nd Edition, 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	CONTACT HOURS <u>PER TOPIC</u>
I. Histology Overview	24
A. Review and Continuation of Laboratory Safety Procedures	
B. Laboratory Protocol	
C. Professional Amenities/Ethics	
II. Quality Assurance	24
A. Review and Continuation of Quality Assurance Protocol	
B. Determinations for Acceptance or Rejection of Specimens	
III. Tissue Processing/Cutting	72
A. Continuation of Processing Skill Development	
B. Continuation of Cutting Skill Development	
C. Special Techniques for Processing and Cutting	
IV. Frozen Specimen Processing	36
A. Special Specimen Accessioning	
B. Cryostat Maintenance and Operation	
C. Frozen Tissue Processing/Cutting	
D. Preparation for Rapid Stains	
V. Special Stains	72
A. Special Stain Groupings	
B. Immunochemistry Stains	
C. Immunofluorescent Stains	
D. Enzyme Histochemistry	
E. Rapid Stains	
VI. Special Techniques	60
A. Cytology Preparations	
B. Plastic Embedding	
C. Electron Microscopy	
D. Autopsy Procedures	

COURSE TOPICS (Continued)	CONTACT HOURS <u>PER TOPIC</u>
VII. Laboratory Operations	48
A. Instrument Maintenance B. Reagent Preparation C. Cleaning and Inventory Control D. Biohazardous and Chemical Waste Management	
VIII. Data Management	24
A. Patient Records B. Specimen Filing C. Data Reporting D. Physician/Laboratory Communication	

PROGRAM TITLE: Histologic Technology
 COURSE TITLE: Histotechnology Practicum II
 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.



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 2841L</u>	SEMESTER CREDIT HOURS (CC): <u>7</u> CONTACT HOURS (NCC): <u>24</u>
COURSE TITLE: <u>Histotechnology Practicum II</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 type="checkbox"/> Scientific Method of Inquiry
<input checked="" type="checkbox"/> Writing	<input checked="" type="checkbox"/> Listening	<input checked="" type="checkbox"/> Information Literacy	<input checked="" type="checkbox"/> Ethical Judgment	<input checked="" type="checkbox"/> Working Collaboratively

Section 5		
LEARNING OUTCOMES		METHOD OF ASSESSMENT
•	Demonstrate ability to follow written and verbal instructions in order to execute key routine histologic technology tasks that are part of the routine operation of the histologic technology laboratory	Practicum checklist; student journal; semester evaluations
•	Participate as part of a collaborative team of histotech laboratorians to provide timely, reliable, and substantive results for pathology diagnostic procedures	Practicum checklist; student journal; semester evaluation forms
•	Apply protocols of HIPAA and quality assurance to all patient specimens worked on in the histotechnology laboratory	Practicum instructor and education liaison communications; student journal; semester evaluation forms
•	Demonstrate didactic and technical competencies in concepts of advanced and specialized histologic technology, to include special stains, immunohistochemistry, flow cytometry	Practicum checklist; semester evaluation forms; practicum project; comprehensive exam
•	Communicate effectively with assigned histologic laboratory personnel for maximum productivity in the workplace setting	Semester evaluation forms; practicum instructor and education liaison communications
•	Evaluate quality of work produced and provide troubleshooting solutions to problems encountered	Practicum journal; practicum project; comprehensive exam

Section 6
Name of Person Completing This Form: Merry A. Carter Date: 4/17/2008