

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	MLT 2194
COURSE TITLE:	Histotechniques III
PREREQUISITE(S):	None
COREQUISITE(S):	None
CREDIT HOURS:	3
CONTACT HOURS/WEEK:	3
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	3
Laboratory:	
Other _____:	
FACULTY WORKLOAD POINTS:	3
STANDARDIZED CLASS SIZE ALLOCATION:	20

CATALOG COURSE DESCRIPTION:

This course is a continuation of Histotechniques II. Students will advance their knowledge of special histologic technology procedures including immunohistochemistry, cytogenetics, and flow cytometry. This course will also include special topics in employment skills, education strategies, and management concepts pertaining to histology. This course may be offered by way of Internet.

SUGGESTED TEXT(S):	Sheehan, D.C. and Hrapchak, B.B. <u>Theory and Practice of Histotechnology</u> , 2nd ed., Battelle Press: 1987
	Carson, <u>Histotechnology</u> . 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	<u>CONTACT HOURS PER TOPIC</u>
I. Overview	4
A. Review of Professional Credentialing Process	
B. Techniques for Development and Delivery of Oral Presentation	
C. Oral Communication Skills for Health Professionals	
II. Principles of Management	5
A. Supervisory Functions	
B. Quality Assurance Documentation	
C. Federal and State Laws and Regulations	
D. Risk Management	
III. Principles of Education	4
A. Curriculum Development	
B. Instructional Methodologies	
C. Evaluation Strategies	
IV. Special Stains	8
A. Review of Procedures	
B. Correlation of Selected Stain With Disease Diagnosis	
C. Troubleshooting	
V. Immunohistochemistry	8
A. Review of Immunology Concepts	
B. Comparison of Techniques	
C. New Antibody Testing	
D. Troubleshooting	
VI. Flow Cytometry	6
A. Principle of Procedure	
B. Usefulness in Diagnosing Disease	
C. Implications for Histology Lab	
D. Special Considerations	

COURSE TOPICS	CONTACT HOURS <u>PER TOPIC</u>
VII. Cytogenetics	6
A. Terminology Related to Genetics B. Procedures for Karyotyping C. Correlations of Abnormal Karyotypes with Disease States	
VIII. Employment Concepts	4
A. Career Entry Techniques B. Professional Attributes C. Interaction Skills D. Legal and Ethical Principles	

PROGRAM TITLE: Histologic Technology
COURSE TITLE: Histotechniques III
CIP NUMBER: 0317.030800

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

09.0 DEMONSTRATE EMPLOYABILITY SKILLS -- The student will be able to:

- 09.01 Conduct a job search.
- 09.02 Secure information about a job.
- 09.03 Identify documents that may be required when applying for a job.
- 09.04 Complete a job application form correctly.
- 09.05 Demonstrate competence in job interview techniques.
- 09.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons.
- 09.07 Identify acceptable work habits.
- 09.08 Demonstrate knowledge of how to make job changes appropriately.
- 09.09 Demonstrate desirable health habits.
- 09.10 Recognize appropriate affective/professional behavior.
- 09.11 Write an appropriate resume.

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:

- 13.04 Demonstrate knowledge of diagnostic terminology.
- 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.

LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S): TITLES(S):

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

15.05 Distinguish between well-prepared and stained and poorly-prepared and stained histologic specimens.

15.06 Identify tissue structures and their staining characteristics.

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

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 2194</u>	SEMESTER CREDIT HOURS (CC): <u>3</u> CONTACT HOURS (NCC): <u>3</u>
COURSE TITLE: <u>Histotechniques III</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 type="checkbox"/> Quantitative Skills	<input type="checkbox"/> Scientific Method of Inquiry
<input checked="" type="checkbox"/> Writing	<input 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
•	Discuss the importance of communication skills (oral, written, non-verbal) in the histology lab setting	Discussion forum, online mastery learning quizzes, final exam
•	Explain the influence of federal and state laws and regulations as they pertain to the histology lab	Online mastery learning quizzes, final exam
•	Demonstrate basic knowledge of principles of education and assessment, as would be used in an instructional application in the histology lab	Project, online mastery learning quizzes, final exam
•	Compare the role of evaluator and evaluate e in the histology lab setting and discuss issues of importance for both to consider during the evaluation process	Discussion forum
•	Explain the purpose, principle, and troubleshooting routes for selected advanced special stains	Online mastery learning quizzes, final exam
•	Explain the purpose, principle and troubleshooting routes for selected advanced immunohistochemical stains	Online mastery learning quizzes, final exam
•	Discuss the principle of flow cytometry and explain its importance in diagnostic medicine	Online mastery learning quizzes, final exam
•	Describe the role of cytogenetic testing with respect to the determination of select disease states	Online mastery learning quizzes, final exam
•	Determine attributes necessary to be successful as a health care professional	Discussion forum; practice resume, online mastery learning quizzes, final exam

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