

Course Competency

MLT 2198 HISTOCHEMISTRY

Course Description

This course will introduce students to principles, purpose, quality control technique, equipment, fixative reagents and results of special stain mechanisms and how they pertain to the histology laboratory. It will also introduce the student to any non-routine special stain techniques, such as those pertaining to nervous, kidney, bone, bone marrow and muscle tissue. Prerequisites: CHM 1033, 1033L; Corequisite: MLT 2198L. (3 hr. lecture)

Course Competency	Learning Outcomes
Competency 1: The student will demonstrate knowledge and comprehension of the basic principles of histochemistry by:	 Communication Numbers / Data Critical thinking Information Literacy Computer / Technology Usage Aesthetic / Creative Activities Cultural / Global Perspective
 Describing the correlations of hematoxylin and eosin stains with special stain techniques Describing the principle of the different special stain techniques Describing the use of different fixatives for special stain techniques Describing the results of special stains Evaluating the use of the H&E stain in correlation with special stains. Explaining the principle and purpose of special stains as they pertain to different tissues 	
Competency 2: The student will demonstrate knowledge, of quality control techniques in histochemistry by:	
 Explaining the purpose of using control tissue slides in histochemistry 	

 Describing control tissue for each special stain techniques Describing the troubleshooting procedures of special stain techniques Resolving possible problems in staining results due to mistakes in technique Evaluating the purpose and principle of special stains for the various tissue types seen routinely in the histotechnology laboratory 	
Competency 3: The student will demonstrate a rudimentary knowledge and comprehension of the basic principles of immuno-histochemical staining by:	
 Outlining immunological concepts Describing the properties and procedures needed in making monoclonal and polyclonal antibodies Listing various immuno-histochemical staining methods 	

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