

COMPREHENSIVE MEDICAL IMAGING

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CMI 350	Ultrasound Physics/Instrument	4 Credits
Principles of acoustical physics, Doppler Ultrasound and ultrasound instrumentation. Prerequisite: Must be admitted into the Sonography Program.		
CMI 351	Abdominal Ultrasound	3 Credits
Recognition and identification of the sonographic appearance of normal anatomical structures, disease processes, pathology, and pathophysiology of the abdomen. Prerequisite: Must be admitted into the Sonography Program.		
CMI 352	Obstetric Ultrasound	3 Credits
Recognition and identification of the sonographic appearance of normal maternal, embryonic, and fetal anatomical structures and obstetric disease processes, pathology, and pathophysiology. Prerequisite: Must be admitted into the Sonography Program.		
CMI 353	Gynecologic Ultrasound	3 Credits
Recognition and identification of the sonographic appearance of normal anatomical structures of the female pelvis and gynecological disease processes, pathology and pathophysiology. Prerequisite: Must be admitted into the Sonography Program.		
CMI 354	Vascular Ultrasound	1-3 Credits
Students will learn basic anatomy, physiology, pathophysiology and Doppler patterns of the human vascular system as it relates to basic sonographic vascular imaging. Prerequisite: Must be admitted into the Sonography Program.		
CMI 366	Abdominal Ultrasound II	2 Credits
Continue development of skills in recognition and identification of the sonographic appearance of normal anatomic structures, disease processes, pathology, and pathophysiology of the abdomen. Prerequisite: Must be admitted into the Sonography Program.		
CMI 376	Sectional Anatomy in MI	3 Credits
This online course will cover transverse, coronal, and sagittal anatomy of the head, neck, thorax, abdomen, pelvis, and extremities. Areas of discussion include skeletal, muscular, circulatory, respiratory, nervous, lymphatic, and visceral anatomic relationships. Prerequisite: Must have completed BIOL 223 or EMS 204 or instructor permission.		
CMI 378	Small Parts Ultrasound	1 Credits
Recognize and identify sonographic appearance of normal anatomic structures, disease processes, pathology, and pathophysiology of anatomic small parts including, thyroid, scrotum, breast and other. Prerequisite: Must be admitted into the Sonography Program.		
CMI 400	Intro to Clinic Imaging Exp	2 Credits
Students will be oriented to the clinical site and begin participating in basic sonographic scanning procedures under sonographer supervision. 120 hours of clinical experience will be required at an assigned clinical site. Prerequisite: Must be admitted into the Sonography Program.		
CMI 486	Diag Med Image Clinic Exp I	9 Credits
Clinical applications of instrumentation, quality control, patient care and performance of diagnostic medical sonography procedures under the direction or observation of a clinical sonographer. Prerequisite: Must have completed CMI 350 and CMI 351 and CMI 353 with a 'C' or higher.		
CMI 487	Diag Med Image Clinic Exp II	7 Credits
Continuation of clinical hours to build clinical applications of instrumentation, quality control, patient care and performance of diagnostic medical sonography procedures under the direction or observation of a clinical sonographer. Prerequisite: Must have completed CMI 486 with a 'C' or higher.		
CMI 488	Diag Med Image Clinic Exp III	10 Credits
Continuation of clinical hours to build clinical applications of instrumentation, quality control, patient care and performance of diagnostic medical sonography procedures under the direction or observation of a clinical sonographer. Prerequisite: Must have completed CMI 487 with a 'C' or higher.		
CMI 491	Sonography Review Topics	1 Credits
Review sonographic concepts, scanning techniques, imaging procedures, anatomy, pathology and pathophysiology. Prerequisite: Must be admitted into the Sonography Program.		
CMI 492	Comp Medical Imaging Capstone	3 Credits
This course utilizes knowledge and experience gained from comprehensive medical imaging and general education courses to develop links between scholastic and professional experiences. This course will emphasize leadership, fiscal and personal responsibilities, and prepare students for a successful transition into the professional workforce. Prerequisite: Must be admitted into the Sonography Program.		