

Diagnostic Medical Sonography, AAS																																													
Program Learning Outcomes	Measurable Student Learning Outcomes (MSLOs)- PLO Alignment																																												
	DMS101	DMS101L	DMS102	DMS120	DMS120L	DMS130	DMS130L	DMS132	DMS132L	DMS135	DMS135L	DMS140	DMS140L	DMS149	DMS150	DMS151	DMS152	DMS154	DMS154L	DMS158	DMS159	DMS234	DMS234L	DMS242	DMS242L	DMS250	DMS254	DMS255	DMS256	DMS259	DMS271	DMS271L	DMS273	DMS273L	DMS274	DMS274L	DMS280	DMS281	DMS282	DMS283	DMS289	DMS290	DMS200 or	NUR200	
5. (Synthesis Level) Students will be able to synthesize knowledge of ultrasound physics, instrumentation, and imaging techniques to produce high-quality diagnostic images and effectively troubleshoot technical issues in a clinical setting. (CSLO 2)	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓	✓						✓	✓			
6. (Application Level) Students will be able to demonstrate effective communication and interpersonal skills, interacting with patients from diverse cultural backgrounds and ensuring comfort and understanding during sonographic examinations. (CSLO 1)				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓			✓						✓	✓	✓	✓	✓	✓		

OB/GYN Sonography Certificate																	
Program Learning Outcomes (PLOs)	Measurable Student Learning Outcomes (MSLOs)- PLO Alignment																
nnn	DMS101	DMS101L	DMS120	DMS120L	DMS130	DMS130L	DMS140	DMS140L	DMS150	DMS151	DMS159	DMS234	DMS234L	DMS242	DMS242L	DMS280	DMS282
1. (Application Level) Demonstrate proficiency in OB/GYN sonographic imaging techniques, including routine and specialized ultrasound exams. (CSLO #2)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2. (Analysis Level) Analyze and interpret normal and abnormal findings in obstetric and gynecologic ultrasound exams, applying appropriate protocols and guidelines for patient care. (CSLO #4)			✓	✓			✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
3. (Synthesis Level) Synthesize theoretical knowledge of female reproductive anatomy and pathophysiology with practical ultrasound techniques to conduct accurate and efficient OB/GYN sonographic exams. (CSLO #2)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
4. (Application Level) Demonstrate effective communication and patient care skills by explaining procedures, addressing patient concerns, and ensuring a supportive, safe environment during OB/GYN sonography exams. (CSLO #3)	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
5. (Evaluation Level) Evaluate and critique ultrasound images to determine diagnostic quality, utilizing critical thinking and problem-solving skills to optimize imaging for improved clinical outcomes. (CSLO #4)	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓

OB/GYN Sonography Certificate																	
Program Learning Outcomes (PLOs)	Measurable Student Learning Outcomes (MSLOs)- PLO Alignment																
6. (Application Level) Exhibit cultural competence and professionalism in the diverse clinical environment, adhering to ethical and legal standards of practice in OB/GYN sonography. (CSLO #1)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓
7. (Application Level) Demonstrate the ability to assess and manage gynecological and obstetric pathologies through sonographic evaluation, ensuring accurate documentation and appropriate follow-up recommendations. (CSLO #2)			✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
8. (Application Level) Integrate ICD-10 coding and billing knowledge into clinical practice, accurately documenting and coding OB/GYN ultrasound procedures according to healthcare standards. (CSLO #3)									✓	✓							

Pediatric Sonography Certificate

Program Learning Outcomes (PLOs)	Measurable Student Learning Outcomes (MSLOs)- PLO Alignment					
	DMS255	DMS256	DMS259	DMS274	DMS274L	DMS283
1. (Application Level) Demonstrate proficiency in pediatric sonographic techniques and imaging protocols for abdominal, cranial, and neurological assessments. Students will be able to apply appropriate sonographic techniques for imaging pediatric anatomy and pathology, utilizing specialized imaging protocols tailored to the pediatric patient. (CSLO #2)	✓	✓		✓	✓	✓
2. (Analysis Level) Analyze and interpret sonographic images of pediatric patients to detect and diagnose common pediatric conditions such as hydrocephalus, brain hemorrhages, and congenital abnormalities. Students will develop the ability to analyze sonographic images and use clinical knowledge to identify normal and abnormal findings, demonstrating diagnostic reasoning in pediatric cases. (CSLO #4)	✓	✓	✓	✓	✓	✓
3. (Synthesis Level) Synthesize clinical findings and sonographic results to create comprehensive reports for pediatric patients. Students will integrate clinical knowledge with sonographic findings to create detailed and accurate reports that inform clinical decision-making and patient care. (CSLO #2)	✓	✓	✓		✓	✓
4. (Application Level) Demonstrate effective communication skills with pediatric patients, families, and healthcare providers during sonographic procedures. Students will exhibit strong communication skills to ensure comfort and understanding during pediatric sonographic exams, while interacting professionally with patients and their families. (CSLO #3)	✓	✓	✓	✓	✓	
5. (Application Level) Apply safety protocols and maintain a patient-centered approach in pediatric sonography, ensuring patient comfort and minimizing risk. Students will practice safety procedures, demonstrate empathy, and ensure comfort for pediatric patients while performing sonographic exams in accordance with safety standards. (CSLO #3)	✓	✓		✓	✓	✓
6. (Evaluation Level) Evaluate and adapt sonographic imaging techniques for pediatric patients, considering the unique anatomical and physiological characteristics of neonates, infants, and children. Students will critically evaluate sonographic techniques to accommodate the varying needs of pediatric patients and adapt to the challenges associated with different age groups and conditions. (CSLO #4)	✓	✓	✓	✓	✓	✓
7. (Application Level) Demonstrate professional conduct, ethical behavior, and adherence to patient confidentiality and privacy regulations in pediatric sonography. Students will exemplify ethical behavior and adhere to legal and professional guidelines, ensuring confidentiality and respect for pediatric patients and their families. (CSLO #3)	✓	✓	✓	✓		✓
8. (Creating Level) Develop critical thinking skills to solve complex problems and enhance diagnostic decision-making in pediatric sonography. Students will demonstrate creativity and innovation in solving diagnostic challenges, applying advanced reasoning skills to complex pediatric sonography cases. (CSLO #4)		✓	✓	✓	✓	✓
9. (Application Level) Prepare for Pediatric Sonography Certification: Demonstrate preparedness for the ARDMS Pediatric Sonography Specialty Examination through review and study of relevant exam content. (CSLO #3)	✓	✓				✓